THE BEST PLACE TO BUY PCs & ACCESSORIES ON THE WEB!!

www.Action.com

Issue 86 June-August 2000

New Range of ML Servers







From Only £965.61 +VAT Online

(Cat No. 63-13-02)

See pages 168-170

COMPAQ

www.action.com

0800 333 333

Action

The No.1 Source for Computers and Supplies

Easy to use

We've made this catalogue so easy to use, you can find exactly what you're looking for...

Easy to use layout

You may find it useful to use the catalogue opened out with the index and notes pages.



Need to call us?

See pages 8–9 for a list of who to call if you have any queries.



DELIVERY DETAILS inside back

HOW TO ORDER pages 6&7

USING THIS CATALOGUE inside front

ORDERING ON LINE pages 14&15

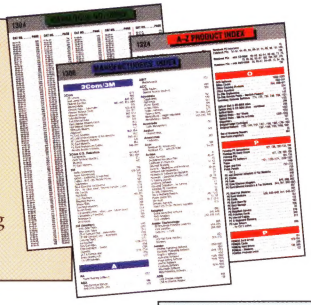
INDEX pages 1077-1119

Easy to find pages

Look out for the following symbols to help you locate these important pages easily throughout the catalogue.

Clear indexes

There are indexes at the back of the catalogue to help you search for a product by manufacturer, product or catalogue number. There is also an index at the beginning of each product section.



Colour-Coding gets you to the product group fast.

Each product section has its own easily identified colour, found in the contents on the back cover and, of course, on the product pages themselves.



Guide Pages

These pages are at the start of each of most of the product section and are packed with information to help you in your purchasing decision. See the guide index on page 11.



Free information online

You can always visit the Action website at **www.action.com** to search for the product you need and also receive constantly updated information on the products and prices along with product reviews and benchmark tests.

Action.com

Quickly find what you need!

It's easy to find products you may want to buy together such as printers and the right consumables to go with them. We call them companion products, and they are featured on the relevant pages in the price bars.

And with our pink pricing, you can benefit from buying these products together and save money with just one delivery charge.

		CAT NO	Online Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1-99	£100+	£1000+
Brother Fax 1020		86-53-48	231.25	●	233.59	233.59
Brother Fax 920		45-88-10	186.17	●	189.95	188.05
Brother Fax 930		45-88-27	231.25	●	235.95	233.59
CONSUMABLES & ACCESSORY	FOR USE WITH					
Brother PC Link - MFL Pro Software	920/930/1020	86-55-06	72.72	74.95	74.20	73.46
Brother Refill Roll	1020	22-87-10	22.07	22.75	22.52	22.30
Brother Ribbon	920/930	25-71-76	18.44	19.00	18.81	18.62

COMPAQ

Prosignia S



- *Compaq assurance of quality*
- *Exceptional price/performance balance*
- *State-of-the-art technology*
- *Upgradable and expandable*
- *Incredibly simple to set-up, service and use*
- *Including Microsoft Windows 98 & Microsoft Word 2000*
- *Peace of mind with Compaq standard warranty*
- *Intel Celeron 500mhz or PIII 600mhz*
- *2 x AGP ATI-Xpert98 Pro (8MB) Graphics*
- *40x CD-ROM*
- *Dimensions: 420 x 160 x 420mm*
- *3 years Compaq warranty, 1yr on-site support, years 2 & 3 RTB*

The Prosignia S Series, a PC solution that helps you grow your business with the state-of-the-art technology at the lowest possible price.
Designed specifically for growing businesses and built with utmost care and attention to detail.

Prices from only £388.63+VAT Online (Cat No. 63-54-59)

See page 153 for more details

Contents

GENERAL INFORMATION	1
TECHNICAL SERVICES • Design & Planning • Pre-configuration • On-Site Installations • Training • Hardware Maintenance • Extended Warranties • Warranty Upgrades • Software Support • Finance & Leasing	21
PROCESSORS & ACCESSORIES • Portable PCs • Desktop PCs • Mini Tower PCs • Small Form Factor PCs • Workstations • Servers • Carry Cases • Accessories • Palmtops & Organisers	50
PC COMPONENTS & UPGRADES • Memory Upgrades • DIMMs • SIMMS • Rambus RIMMs • Processors • Processor Upgrades • Hard Drives • Motherboards • Graphics Cards • Sound Cards • MP3 Player • CD-ROM drives • SCSI Adaptors • Upgrade Cards • Cables • PC Cases	186
PERIPHERALS • Tape Drives • CD ROM Drives • CD Writers • CD Duplicators • DVD Drives • Network Attached Storage • Monitors • Multimedia • LCD Flat Panel Displays • Scanners • Keyboards, Mice & Pointing Devices • Presentation Devices • Video Conferencing • Digital Cameras & Accessories	245
PRINTERS • Mono Laser Printers • Colour Laser Printers • Inkjet Printers • Dot Matrix Printers • SupportPacks • Accessories • Multifunctional Products	371
OFFICE PRODUCTS • Answering Machines • Business Telephones • CD Storage • Chairs• Cleaning Kits • Conference Telephones • Copyholders • Data Cartridge Storage • Desk Accessories • Desk Clearance • Dictation Equipment • Disk Mailers • Disk Storage • Facsimile Machines • Fire Safes • Foot Rests • Label Printers • Laminators • LAN Furniture • Mouse Mats • Photocopiers • Printer Stands • Screen Filters • Security • Shredders • Silencers •Telephone Systems • Terminal Arms • Workstations • Wrist Rests	459
CABLES AND CONNECTIVITY • IEEE Printer cables • Network Cat 5 Cables • Universal & Centronics Cables • SCSI & Internal Cables • Fibre Optic & Bulk Cables • Adaptors, Connectors & Gender Changers • Manual, Bitronics & Auto Switches • KVM Switches & Extenders • Surge Protection • Toolkits and Testers • Network Furniture & Cable Management • Telephone Accessories • USB Connectivity	541
NETWORKING & COMMUNICATIONS • Adaptors • Network Servers • Switches • Hubs • UPS • Transceivers • Routers • Print Servers • Storage Management • Laptop PC Cards • Network Security • Fax Modems • PCMCIA/GSM Cards • ISDN Adaptors • Ethernet Media Converters	638
SOFTWARE LICENSING • Microsoft • Corel • Lotus • Symantec • Network Associates • FileMaker • Persoft • Borland • Visio • Adobe • Executive Software • Computer Associates • Novell • VERITAS	788
SOFTWARE • Office Suites & Applications • Accountancy Packages • Anti-Virus • Graphics, DTP, Image Editing • Databases • OCR • E-Mail • Internet Software • Operating Systems • Training Books & Manuals • Speech Recognition • Programming Languages • Utilities & Communications • Project Management • CAD & Diagramming • Terminal Emulation • Reports Writer • Home, Leisure & Reference	810
PRINTER CONSUMABLES • Printer Ribbons • Thermal Ribbons • Laser Cartridges • Inkjet Cartridges • Fax Consumables • Paper • Films • Inkjet Refills	945
DATA STORAGE MEDIA • Diskettes • Data Cartridges • Disk Cartridges • CDR/W • DVD-R/RAM • DLT Tapes • Optical Media	1035
CLEARANCE BARGAINS	1072
TERMS & CONDITIONS	1075
INDEX	1077
DELIVERY	1120

Contents

Using this catalogue ..... inside front
Contents 1
All about Action 2-5
How to order/payment 6-7
Useful phone numbers 8-9
Customer care 10
Useful guides 11
Action accounts 12-13
Action.com 14-15
Loyalty Bonds 16-20
Action Services 21-39
Web Offers 40-49
Product Pages 50-1071
Clearance bargains 1072-1074
Terms & conditions 1075-1076
Index 1077-1119
Delivery ..... 1120, inside back

Easy Ordering...

NEED ANY TECHNICAL HELP WITH YOUR ORDER? 08701 66 44 44

Phone your order free - 0800 333 333
Order online - www.action.com
Fax your order free - 0800 10 20 30
Order by e-mail - orders@action.com

1. Have your Customer Number ready
2. Have your FULL Invoice Address, inc. Post Code
3. Have your FULL Delivery Address, inc. Post Code
4. Have your order reference, e.g. your Purchase Order Number (if applicable)
5. The Catalogue Numbers of the products you wish to order, and their description
6. If paying with order, please also have your Credit/Debit Card details at hand
7. Then leave the rest to us

A mission to be the best...

A successful beginning...

A small company was formed in 1981 to sell printer consumables. It was an immediate success and soon more and more product lines were introduced. That company adopted an aggressive mission statement, 'to be the leading reseller of brand leading computer equipment at the lowest possible prices'. They were committed to that mission statement and in April 2000, the Interim of the Fiscal Year, had a turnover of £137.6m.

Action is the UK's No.1 mail order reseller of IT products

Realising success depends entirely on customer satisfaction, we strive to offer...

- ✓ **The best products**
- ✓ **The best prices**
- ✓ **The best service**

And by selecting the best people, we are backed by a strong team...

Our **Business Managers** backed by a powerful buying force, constantly monitor product lines and pricing, ensuring the widest range of leading brands and the latest technology all at the lowest prices.

Customer Order Processing are at the end of the freephone number and e-mail address taking your order and accurately dispatching it when you need it.

Action Accounts are also committed to offering an excellent service, helping customers with large orders, setting up accounts whether on account or credit card terms.

Our **Technical Support Teams** are there to offer technical information on the products featured in the Action catalogue, helping customers select the right product for their needs.

Our **Warehouse** staff quickly process the order you have placed, selecting it from stock accurately and dispatching it exactly as you've requested.

And our **Marketing** and **Publishing** teams make certain the information printed in the catalogue is always up to date. They also make sure that customers are constantly updated with offers from new products to price cuts. Whether it's via direct mail or the Internet customers receive information and latest prices as soon as possible helping keep you on top of new developments in IT.

Action has been described as a 'well oiled machine' placing customers first, with everyone working together to offer the very best. Proof of this efficient structure is the ISO9002 quality standard to which Action has been accredited to since 1994.

And our **Customer Services** team is here to provide non-technical assistance for products purchased from Action such as shipping information and product return or credit authorisation.



DELIVERY DETAILS inside back

USING THIS CATALOGUE inside front

HOW TO ORDER pages 6 & 7

ORDERING ON LINE pages 14 & 15

Action
The No.1 Source for Computers and Supplies

The best products...

You demand the best IT products, Action strives to offer them.

The widest selection
20,000 brand leading products.

The latest IT information
Action produces regular publications offering you an even wider range of products. These include:



Showcase – packed full of great offers, great prices and great products. It also includes a special software section with brand leading software at low prices and lines not found in the main catalogue.

Networker – includes detailed information of the latest networking products.

Office Products & Supplies – featuring many products not found in the Action Catalogue.

The products you need and ask for
Our monthly customer panels help us understand your requirements. We continually strive to meet and exceed those requirements.

Driven by you...
Unlike many resellers, our catalogue is unfunded which means you will see the products ***you*** want to see rather than the ones the manufacturer wants you to see.

Manufacturer support and confidence
Action has a close relationship with all the leading vendors, who have confidence in our service. We have been accredited with numerous reseller awards and official reseller status for many manufacturers.

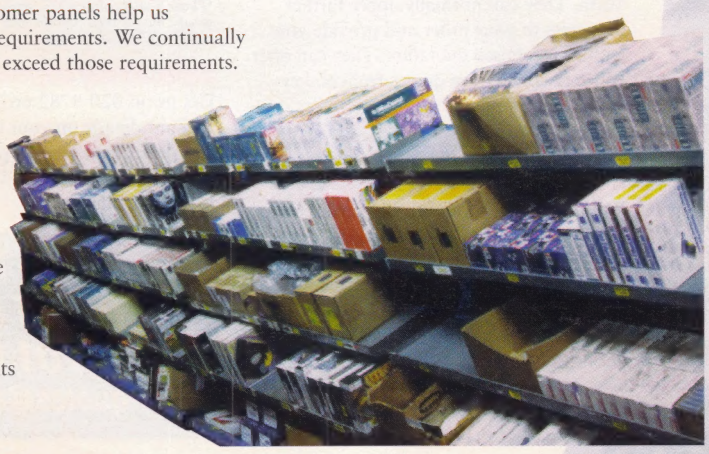
The latest products
We constantly monitor new developments in IT providing you with the very latest developments as soon as they arrive. As soon as we receive any new information, price cuts or unmissable offers we convey them to you as quickly as possible either via direct mail shots or online.

Services can be bought as products
Our new mini-business enables us to offer Services as a 'deliverable' just like a product. Each service has a price, a specification and a customer expectation which we ensure we satisfy.

(see pages 21-39)

Clearance bargains
We can often offer you considerably reduced prices on end of line and refurbished brand leading products.

(see pages 1072-1074)



at the best prices ...

Order value related discounts...

Online discounts

The first blue column in the price charts is the online price, which is even lower than all the other prices, no matter how large or small your order is. Place your order via our web site to receive these discounts.

See pages 14 and 15 for more information.

Other discounts

The three pink columns are increasingly discounted. If your total order value is between £1–£99 each product in your order will be the price that is stated in the £1-99 column. If your order is £100-£999, each product will be the price stated in the £100+ column, regardless of the combination or amount of products you order. And so on.

Our system automatically calculates your discounts and our customer ordering teams will always ensure that you get the best deal.

Many products will also feature companion products within the price bars, such as printers and their consumables, making it easy for you to order all the products you need in one go, benefitting from increasing product discounts and just one delivery charge.

		CAT NO	Online Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1-99	£100+	£1000+
Brother Fax 1020		86-53-48	231.25	➡	233.59	233.59
Brother Fax 920		45-88-10	186.17	➡	189.95	188.05
Brother Fax 930		45-88-27	231.25	➡	235.95	233.59
CONSUMABLES & ACCESSORY	FOR USE WITH					
Brother PC Link - MFL Pro Software	920/930/1020	86-55-06	72.72	74.95	74.20	73.46
Brother Refill Roll	1020	22-87-10	22.07	22.75	22.52	22.30
Brother Ribbon	920/930	25-71-76	18.44	19.00	18.81	18.62

USING THIS CATALOGUE inside front

HOW TO ORDER pages 6&7

ORDERING ON LINE pages 14&15

Spending over £5000 in one order?

If you're intending to spend over £5000 in one order and you don't have an account manager, call our Quotes and Tenders Team. They can normally apply further discounts to your order and provide you with a customised quotation. They can offer you very competitive quotes from all key manufacturers.

See page 13 for more information.

Major discount available...

You may qualify for even bigger discounts and could benefit from a fixed discount rate on all your orders. This service comes with your own account manager who will ensure you're receiving even better deals and information of the latest offers by phone.

See page 13 for more information.

An extra 0.75% off...

Pay by cash, debit card or cheque and get a extra 0.75%* off your order (excludes VAT and carriage).

**Please note the discount is applied to individual and specific invoice lines (not the total invoice value), and excludes VAT and carriage.*

Enjoy 30 day payment terms!

Fax us on 020 8782 6629 with your bank account details on your company letterhead, and we will process your request for an account. Call 0800 333 333 for full details.

Quotes & Tenders

08701 66 88 33

08701 66 88 22

quotes@action.com

to your satisfaction...

We want our customers to keep coming back. So we offer customer satisfaction as standard. More to the point we offer the service you demand.

You tell us...

Action holds a customer panel every month, where you, the customer, tell us what you want. The results of these panels are distributed to every department within Action ensuring every department continues to offer the best service.

Easy ordering

We have made it easy to order via Freephone 0800 333 333, Freefax 0800 10 20 30, online at www.action.com, or by Freepost.

See pages 6-7 for more information.

Delivery

Our delivery service is second to none and you can choose from same day delivery (central London only), next day or economy.

See page 1184 and inside back cover for more information.

Over 200 incoming phone lines

Action has over 200 FREE incoming order lines to ensure you will never need to wait long to get through.

30 day money back guarantee

We want to ensure that you are more than satisfied with your purchase. That's why Action offers a guarantee against defects in material and workmanship on every product for a minimum period of one year - complementing any manufacturer's warranty.

Please refer to the returns policy on page 7.

Rewarded for your loyalty

Action has made it easy for you to be loyal with the best products, the best prices and the best services.

We also reward you for your loyalty with e-Bonds - you'll receive e-Bond points every time you place an order with Action. Collect these points and exchange them for your choice of high street vouchers or Air Miles.

See pages 16-17 for more information.

Dedicated Account Management

If you are managed by an Action Account Team, you will have a dedicated account manager available to talk to about anything, just a phone call away.

See pages 12-13 for more information.

ISO 9002 accreditation

Because of our commitment to customer satisfaction, Action has been accredited to the ISO9002 quality standard since 1994.



Can we take

BEFORE YOU PLACE YOUR ORDER

Pre-sales Technical
08701 66 44 44
prehelp@action.com

If you need extra information on any product simply freephone our Pre-Sales Technical information line, or any of the dedicated helplines (including software licensing helplines) where trained staff are on hand to answer your queries.

PLACING YOUR ORDER

Freephone ordering
0800 333 333
over 200 FREE incoming lines.

Call us anytime between 8am and 6pm Monday to Friday or 9am to 1pm Saturdays. (Goods are dispatched following Monday for Saturday orders.)

Freefax
0800 10 20 30
fax your order through to us if its more convenient

Please do not send postal confirmations of orders as this may lead to duplication

Customer support
0800 61 1234 **customer.services@action.com**

Freepost, Action
FREEPOST, Wembley, Middlesex, HA0 1BR
your order may take a couple of days to reach us by post but will still receive the same prompt response on arrival.

Online
Action.com **www.action.com**
place your order via our web site and benefit from even bigger discounts no matter how large or small your order.

ORDER TRACKING

Your orders can be tracked online by accessing. **www.action.com/tracking**

PAYMENT

Pay for your order in the most convenient way...

Enjoy 30 day payment terms!
Fax us on 020 8782 6629 with your bank account details on your company letterhead, and we will process your request for an account.
Call 0800 333 333 for full details.

Credit Card. Action accepts Access, Visa, Mastercard, Diners Club and American Express.

Debit Card. Action also accepts Switch & Delta. Pay with either of these and receive an extra 0.75% discount* (excluding VAT & carriage).

Cash or Cheque. You can also pay by cash or cheque. Pay with either of these and again you'll receive an extra 0.75% discount* (excluding VAT & carriage). Please make your cheques payable to *Action Computer Supplies*.

Please be aware that cheques take five working days to clear after they have been received by us.

**Please note: This 0.75% discount is applied to individual invoice lines (not to the total invoice value)*

ORDERING ON LINE pages 14 & 15

INDEX pages 1077-1119

DELIVERY DETAILS inside back

your order?

DELIVERY/COLLECTION

We realise that once you've decided which products you would like you don't want to wait a moment longer than is absolutely necessary. That's why Action offers a range of fast delivery services for your convenience. You can choose from... SAME DAY DELIVERY (within western M25), NEXT DAY DELIVERY (nationwide), or ECONOMY DELIVERY (three day delivery).

Urgent deliveries

We are happy to quote for very urgent deliveries on an individual basis.



Collecting your goods

Local customers can arrange to collect their order from our warehouse based in Southall, Middlesex. Please remember to give one hour's notice so we can have your order ready for collection.

See page 1184 and inside back cover for full delivery information.

Products requiring fragile delivery – provided at no extra cost

RETURNS POLICY

1. Action does not sell goods on trial basis. Customers are strongly advised to check the suitability and specifications of products before ordering. Action does not warrant the suitability or compatibility of goods, or their fitness for any specific application.

2. Unless otherwise stated in the manufacturer's documentation, all goods delivered to a UK mainland address carry a 12 month manufacturer's warranty. This, however, does not detract from customers' statutory rights. Customers who wish to make a warranty claim must comply with the manufacturer's instructions on warranty procedure.

3. Action will repair, replace or refund defective goods returned within 30 days of purchase, provided that the goods are received back from the customer in the original undamaged packaging, complete (including manuals), and in "as new" condition. This excludes Clearance Bargains - please refer to the conditions in the catalogue. Products sourced specifically for customers will not be accepted back unless defective.

The 30 day returns policy does not apply in all cases. Some manufacturers require goods to be returned within 14 days in order to secure refund. In such instances, the manufacturer's time limit will apply, and therefore Action will only accept a return within 14 days of purchase. This is clearly indicated on the catalogue page for the particular product.

4. Goods must not be returned without prior authorisation from Action. All returned goods must be accompanied by Action's Returns Authorisation number (RA) which can be obtained by contacting Customer Services on 0800 61 1234 Action will then arrange and pay for collection. (Warranty claims may involve dealing direct with the manufacturer)

Customer Services
0800 61 1234
020 8782 6654
customer.services@action.com

5. Customers are responsible for ensuring that goods are returned securely packed and also for obtaining the appropriate proof of collection. No goods will be accepted for return by Action if they are received in a damaged condition as a result of inadequate packaging. All software supplied in the box with the item MUST be returned at the same time. Failure to do so will result in the amount any credit refund being reduced by the replacement cost of the missing software. We are obliged to inform the Federation Against Software Theft (FAST) and Microsoft's Software Anti-Piracy Department when this software is not returned.

6. No software on which the seals have been broken can be returned for credit. If any software discs are faulty they will be exchanged by the manufacturer.

7. Credit or re-imbursement will only be approved when Point 5 above is fully complied with. Should packaging prove insufficient or if product is damaged, calculation will be made of the retention value of the returned item and a reduced credit value will be issued.

8. Handling Charges -In circumstances where goods are returned outside the terms of the process described above causing additional costs to be incurred, Action reserve the right to levy a handling charge on the customer.

9. Authorisation for credit or replacement can only be given by Customer Services.

The right call for

BEFORE YOU ORDER

Pre-Sales Technical

Phone

08701 66 44 44

prehelp@action.com

Phone for technical information on any of the products featured in this catalogue.

Phone lines open: 09.00-17.30 Mon-Fri.

Software Licensing

Microsoft MOLP
08701 63 33 58

Lotus Passport
08701 63 33 59

Novell VLA
08701 63 33 00

Other Licensing
08701 63 33 00

Phone lines open: 09.00-17.30 Mon-Fri.

Dedicated Technical Helplines

Action offers dedicated Helplines with manufacturer trained staff.

Canon
08701 63 33 63

Hewlett-Packard
08701 66 99 77

Novell
08701 66 26 61

Toshiba
08701 63 33 30

Phone lines open: 09.00-17.30 Mon-Fri.

PLACING YOUR ORDER

Ordering

Customer Orders staff may pass you to our Pre-Sales Technical lines to help you select the right product first time.

Freephone
0800 333 333
there are over 200 FREE incoming customer order lines.

Phone lines open: 08.00-18.30 Mon-Fri 09.00-13.00 Saturday (Goods despatched following Monday)

Freefax
0800 10 20 30
fax your order through to us if it's more convenient

Please do not send postal confirmations of orders as this may lead to duplication

Action online
www.action.com
Access Action's new website with full online ordering, up-to-date product information and discounts and parcel tracking.

Freepost
Action FREEPOST, Wembley, Middlesex HA0 1BR
(May take a couple of days to reach us)

New Accounts

Call **0800 333 333** now to open an account or see details on page 6 or e-mail us on orders@action.com

Special Orders

Call **08701 66 44 44** to order products not shown in this catalogue.

See page 10 for more details.

Warranties

For Action's Guarantees and Warranties, contact Customer Services.



Orders for export

Call **0800 333 333** or **44-181 900 2566** from outside the UK.

Extra catalogues

Request further copies by e-mail to catalogue@action.com

Payment

Staff will establish details with you at time of ordering. *See page 6.*



Delivery

Arrange delivery details and costs at time of ordering.

See page 1120.

Action
The No.1 Source for Computers and Supplies

Action may at its discretion record telephone transactions with its customers. This is for staff training purposes only. See Item No.14.7 in Terms & Conditions, pages 1075-76.

he right solution

FOR BIGGER DISCOUNTS

Quotes & Tenders

If you intend to spend over £5000 in one order and you don't have an account manager, call our Quotes and Tenders Team. They can normally apply further discounts to your order and provide you with a customised quotation. They can offer you very competitive quotes from all key manufacturers.

- **Single orders over £5k?**
- **Spending over £25k a year?**

Phone
08701 66 88 33
Phone lines open: 08.00-18.30 Mon-Fri.

Fax
08701 66 88 22
quotes@action.com

Key Accounts queries
key.accounts@action.com

VIP queries
vip@action.com

New customer queries
new.customer@action.com



AFTER-SALES QUERIES

Customer Services

Freephone
0800 61 1234
customer.services@action.com
Phone lines open: 08.00-18.30 Mon-Fri.

Fax
020 8782 6654
Our post sales technical information team will be happy to evaluate faulty products between 09.00-17.30 Monday to Friday on any of the above numbers.

Please have ready:
- **Invoice Number**
- **Delivery Note Number**
- **Customer Number**
- **Details of query**

Returns & Repairs

For returning faulty goods and refunds.

See page 7.

Order Tracking

is available online at www.action.com/tracking

Warranty Claims

For enquiries concerning existing manufacturers' warranties as well as Action's OfficePLAN on-site extended warranty call the Customer Support number.

ADMINISTRATION QUERIES

Administration

phone
020 8900 2566
Phone lines open: 08.00-18.30 Mon-Fri.

fax
020 8900 2028

post
Action
Alperton House
Bridgewater Road
Wembley, Middlesex
HA0 1EH

Loyalty Bond Redemption

To obtain your FREE Vouchers

See pages 16-20



Customer Accounts

phone
020 8900 2566
Phone lines open: 08.00-18.30 Mon-Fri.

fax
020 8902 9520
For invoice queries and other payment details. (Not delivery details.)

Customer care

Pre-sales technical information

If you require pre sales information on any products displayed within the Action catalogue, you can call us on **08701 66 44 44**. Our online pre-sales agents will endeavour to supply the information you require to enable you to select the most suitable purchase.



If you require information on a product not currently sold by Action, call the above number with the manufacturer's part number to enable us to help you with your enquiry. We strive to process non-catalogue product enquiries as quick as possible, but it can take up to three days to process this type of query. Please note that any product sourced by Action as a special item (a currently un-stocked product) is non-returnable unless faulty or defective.

Post-sales technical information

If you require post-sales technical assistance, you may call us free on **0800 61 1234**. Our online technical agents will endeavour to aid with level one non-software configuration problems. If you require level two technical support of a chargeable nature, please call **08701 66 44 77** for details of chargeable support contracts.



After sales services

You can call our Customer Services team free on **0800 61 1234** if you have any problems with your purchased products. They'll be happy to arrange technical advice, repair or replacement if necessary.



Warranties and guarantees

For peace of mind, Action offers a guarantee against defects in material and workmanship on all products for a minimum period of one year – complementing any manufacturer's warranty. In addition we will replace or refund monies for any product, which is found to be defective in material or workmanship within 30 days of purchase. *Please refer to the returns policy on page 7 for full details.*

These warranties are issued on the basis that a returns authorisation number is obtained from our Customer Services Team and the products are returned to our service centre in their original packing and in good condition.

The target turnaround time for repair is 15 working days from receipt, but will depend on spare part availability.



INDEX pages 1077-1119

USING THIS CATALOGUE inside front

HOW TO ORDER pages 6&7

ORDERING ON LINE pages 14&15

Need some help?

Use the informative guides at the start of each product section to help you make your decision. Alternatively you can use the Ziff-Davis product reviews on our website at www.action.com.

Non-catalogue items	10
Portable PC	51
Palm Handheld Organisers	111
PCMCIA / PC Cards	715
SIMMS	187
PC Components	190
Hard disk drives	215
Data storage	248
Monitors & regulations	295, 296
Digital cameras	329
LCD projectors	348
Inkjet printers	374
Laser printers	404
Colour laser printers	426
Dot matrix printers	441
Multifunctional devices	452
Multifunctional capable fax machines	460
Fax machines	464
Security	510
Fire safes	515
Screen filters	518
Media storage	526
Cleaning	534
Cables & connectors	565
SCSI systems cables	576
Network cabling	599
Ethernet installations	617
Uninterruptible power source	640
Network adaptor cards	650
Ethernet card connector	651
Hubs	662
Switches	550
Print servers	705
Convertors and multiplexers	736
Remote Access Solutions	750, 751
Software	788

This symbol in the catalogue means Macintosh or Macintosh compatible product

Action Account Teams

the experience and resource to look after all your needs



Our dedicated Account Teams focus their time and effort on meeting customers' needs. Together with our Networking Services and Licensing Sales Teams, they provide the most efficient and cost effective service, whether dealing with specific 'project-based' enquiries or ongoing business with Action.

The Team Leader ensures that each individual customer's details and profile are understood by the entire team, guaranteeing access to a quality service at all times.

All the members of your account team have a thorough understanding of desktop and file server technology, including software volume licensing agreements from Microsoft, Lotus and Novell.

As an Action account, we will be pleased to offer you an extra range of services...



USING THIS CATALOGUE inside front

HOW TO ORDER pages 6&7

ORDERING ON LINE pages 14&15

Spend over £25k a year?

Benefit from a fixed deal when you place an order

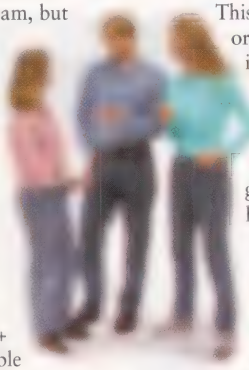
Action has a strong pedigree in the business of desktop supply to users of Information Technology. A great deal can always be struck between you and your accounts team, but it may not always be convenient for you to buy in large consolidated orders.

Here's how we can help

Our pricing structure is based upon order value and for every order placed, however small, you can benefit company wide by receiving an agreed price break.

For example, a small order for £105 could qualify for the £1000+ price break or even more favourable pricing when your organisation negotiates an ongoing volume contract with Action.

The following are the standard pricing deals available. They vary in commitment levels and group deals are general flexible agreements based upon historical spend whilst Trading Agreements are a commitment to specific levels.



Group deals

Group deals are now established with many of our accounts. Your business can strike advantageous terms with Action over all your orders - not just large ones, if you expect to spend in excess of £25k per annum.

This structure is ideal for organisations who have centralised influence but de-centralised authority, by allowing Action to market agreements on the customer's behalf throughout the group. It also enables us to give benefit to all your all budget holders, with effective and thorough management reporting available to give you a complete understanding of their purchasing.

Trading Agreements

Our Trading Agreements involve a written intent signed by both parties agreeing to increase business to a higher value. Where you have a good understanding of your future spending plans, we can agree even more favourable terms to enable your company to derive even better value for money.

Who to call...

Quotes & Tenders phone	***08701 66 88 33*** quotes@action.com	9am to 5:30pm Mon-Fri 24 hours
Key Accounts	key.accounts@action.com	24 hours

If you know you are a Key Account and have and have a query regarding your account or account team.

VIP	vip@action.com	24 hours

If you are a VIP Account and have a query regarding your account or account team.

New Customer	new.customer@action.com	24 hours

If you are unsure as to which account grouping you are in, or are a new customer.

Order online at...

As our customers have become more familiar with our comprehensive and user-friendly website, our annual sales have increased to a run rate of over £66 million.

We are constantly developing and updating our site to ensure that information on over 20,000 products is the absolute latest. With the inclusion of reference guides and reviews, daily updates to our product descriptions, up-to-the-minute pricing and fantastic offers, we hope it makes your purchasing decision an easy one.



USING THIS CATALOGUE inside front

HOW TO ORDER pages 6&7

Run Paper...669 rives...1148

INDEX pages 1077-1119

DELIVERY DETAILS inside back

www.action.com

✓ ***Lower Prices Online*** – buy online and receive even bigger discounts.

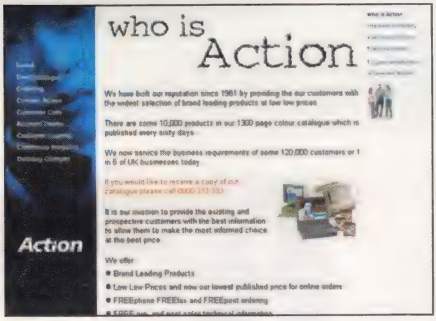
✓ ***The best-maintained product database*** over 20,000 lines supported by specifications and product pictures.

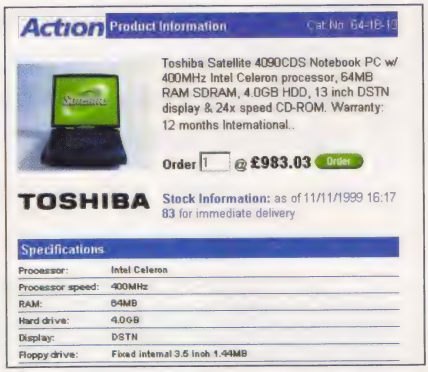
✓ ***The best value, service and offers*** from the UK's largest direct IT reseller.

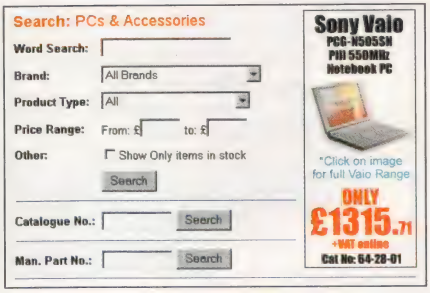
✓ ***Track your order*** all the way to your door with our recently introduced online order tracking service www.action.com/tracking.

✓ ***Ziff-Davis reviews***– impartial information with product reviews & bench mark tests.

✓ ***Useful reference guides*** to help you in your purchasing decision.







✓ ***Real time stock availability*** – see the latest stock levels on all our products.

✓ ***Dedicated vendor areas*** offering specific search options, and the latest news and products.

We now have two memory configurators available online





FREE vouchers

The loyalty program consists of e-Bonds which are issued on all orders placed over the web, enabling you to choose from a variety of discount vouchers.

See below for current rate of issue. The changes allow us to both reward our customers for the business they place with us and at the same time, allow us to offer you the most competitive prices around.

5 points for every £10 up to £500*



e-Bonds are issued on all orders placed over the Web (5 points for every £10 to £500 and 5 to a maximum of 1150 points per order.

Points are valid for 12 months from issue and can be redeemed using the redemption form on page 20. You can select from Action discount vouchers, Air Miles, Travel vouchers or a wide range of retail store vouchers such as Argos, Debenhams, Boots, Our Price and Sainsbury's.

How do you get the vouchers?

Every time you place an order online of £10 or more with Action you'll receive a 'e-Bond" attached to your despatch note with a certain number of points. Save these e-Bonds until you have enough points to exchange for your free vouchers.

How many vouchers will I get?

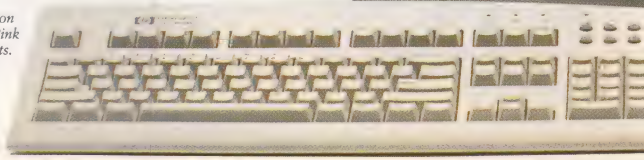
The tables on this and the next few pages outline the number of points you need for each of the vouchers. Turn to the Exchange Form on page 20 to redeem your points.



The more you order, the more e-Bonds you get & vouchers you can choose...

**5 points for every £25 over £500 to a maximum of 1150 points per order.*

Your e-Bonds are issued in addition to any other discount including Pink Pricing and Large Order discounts. e-Bonds are valid for 12 months from date of issue.



USING THIS CATALOGUE inside front

HOW TO ORDER pages 6 & 7

ORDERING ON LINE pages 14 & 15

Action
The No.1 Source for Computers and Supplies

for your loyalty...

Action Vouchers offer extra spending power for FREE! For just 795 points you can select a £25 Action voucher, or continue collecting for higher value vouchers.

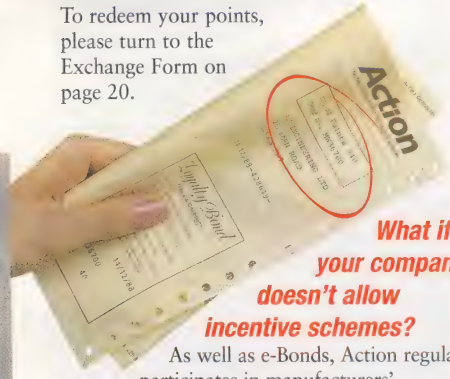


Action vouchers are valid for 12 months from date of issue and can be redeemed against any of the products we feature. That includes our range of Clearance Bargains plus any products featured in our future catalogues, frequent mini catalogues and special mailings.
These vouchers are issued in addition to any other Action discount including Pink Pricing and Key Accounts discounts.

Start saving your points now! It's Action's way of thanking you for your custom and loyalty.

To redeem your points, please turn to the Exchange Form on page 20.

Ref	Voucher Type	Pts
25 ACTION	£25 Action Voucher (inc VAT)	795



What if your company doesn't allow incentive schemes?

As well as e-Bonds, Action regularly participates in manufacturers' promotions. Some organisations, as a matter of policy, prefer not to accept promotional gifts. In such cases, on request, Action will offer a compensating discount.

Donate Vouchers to your local school

Support your local school by exchanging your e-Bonds for Action Vouchers and nominating a school to which you would like them donated.

RNIB
challenging blindness

Royal National Institute for the Blind

RNIB is the leading charity for blind and partially sighted people and has always been at the forefront of technological advance. In schools, colleges and the workplace, computers are now the pens and paper of the visually impaired.

Making a donation

Anyone wishing to make a donation to the RNIB can do so by saving just 840 points in return for a £25 donation. Simply complete and return the exchange form on page 20 and Action will send £25 to the RNIB. All donations will be acknowledged.

Ref	Voucher Type	Pts
25 RNIB	£25 Donation to RNIB	840

Choose Action vouchers or store vouchers on pages 18-19.

OUR PRICE music
Argos
SAINSBURY'S
Boots
HALFORDS

FREE Air Miles

You can also exchange e-Bonds for FREE leisure and travel vouchers.

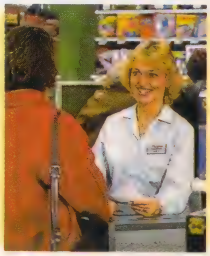
Shown below are the number of points you need for the different vouchers and details of just how you can spend them.



Argos vouchers

These Argos Gift Vouchers can be exchanged at any of the 200 Argos Catalogue showrooms nationwide. Choose from over 3000 top quality items in the Argos Catalogue.

Argos



Boots vouchers

Start saving today for Boots vouchers. You can redeem them in any of the following stores nationwide:



Boots OPTICIANS

HALFORDS

DO IT ALL Homestyle

FADS





for famous name ranges of cosmetics, family products and toys. (Homestyle, Fads and DO IT ALL offer homecare products.)

Boots



Travel the world with Air Miles

You can now choose to save Air Miles awards with Action. Use them towards a wide range of free and discounted travel and leisure opportunities, including flights with British Airways to over 200 destinations worldwide.



Action e-Bonds are issued on orders received over the web.

Ref	Voucher Type	Points
125 AIR M	125 Air Miles Awards	895
25 BOOTS	£25 Boots	1095
50 BOOTS	£50 Boots	2095
150 BOOTS	£150 Boots	5985
BOOTBLK	£25 Boots Bulk	995*
25 ARGOS	£25 Argos	1095
50 ARGOS	£50 Argos	2095
150 ARGOS	£150 Argos	5985
ARGBULK	£25 Argos Bulk	995*

USING THIS CATALOGUE inside front

HOW TO ORDER pages 6&7

ORDERING ON LINE pages 14&15

*£25 Bulk Voucher is redeemable for an additional 995 points only when 5985

& store vouchers



Holiday Vouchers

Great Hotels of Britain

With 795 points, you can receive a £250 voucher towards a mid-week or weekend stay in one of 130 of the country's top hotels. This award offers you total flexibility, even allowing you to reserve several rooms so that you may take family and friends. Each person is only required to take breakfast and dinner at the price listed by your chosen hotel.

Trip to France

Up to five people can travel free to France in association with P&O Ferries with 795 points. You can travel on one of three routes at any time and return within three days. Car not included.

Debenhams Vouchers



Now your points can be used to really treat yourself or family at Debenhams 'Britain's Favourite Department Store'.

Exchange your points for Debenhams Gift Vouchers and you can redeem them for the merchandise of your own choice at the biggest department store group in the UK. From fashions for all – to homeware and gifts, famous designers, international brands, cosmetics and cookware.



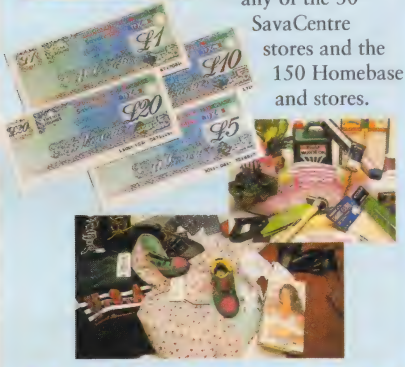
DEBENHAMS
BRITAIN'S FAVOURITE DEPARTMENT STORE

Sainsbury's Vouchers

Just 1095 purchase points will secure you a £25 Sainsbury's voucher, redeemable at any of their 1200 stores nationwide.



In addition to Sainsbury's, vouchers can be redeemed at any of the 30 SavaCentre stores and the 150 Homebase and stores.



SAINSBURY'S

Our Price Vouchers

Our Price have joined Action to offer you the world of Rock, Jazz and Classics on CDs Cassettes and Videos.

OUR PRICE music



Ref	Voucher Type	Points
250 GH	£250 Great Hotels of Britain	795
FRANCE	Trip to France	795
150 HOL	£150 Holiday	795
25 DEBS	£25 Debenhams	1095
50 DEBS	£50 Debenhams	2095
150 DEBS	£150 Debenhams	5985
DEBSIBLK	£25 Debenhams Bulk	995*
25 OUR P	£25 Our Price	1095
50 OUR P	£50 Our Price	2095
150 OUR P	£150 Our Price	5985
OURPIBLK	£25 Our Price Bulk	995*
25 SAINS	£25 Sainsbury's	1095
50 SAINS	£50 Sainsbury's	2095
150 SAINS	£150 Sainsbury's	5985
SAINSIBLK	£25 Sainsbury's Bulk	995*

points are redeemed for the £150 voucher.

Exchange Form
e-Bonds Catalogue 86

Use this page to convert your e-Bonds into Vouchers. Send the completed form with your e-Bonds/Purchase Points to: *Action, e-Bonds, FREEPOST, Wembley, Middlesex HA0 1BR*

Name

Position

Company

Address

Postcode

Tel. No.

Customer Account Number

Signature



I enclose the following:

BOND NUMBERS	PURCHASE PTS
Total Points	

Your organisation may disallow incentive schemes such as e-Bonds.
In this event, please stipulate Action product discount vouchers – or ask for details of Action's further retrospective discounts.

Please send me the following vouchers:

QTY	REF.NO.	VOUCHER TYPE	PTS/ITEM	PTS TOTAL
	25 ACTION	£25 Action	795	
	25 ARGOS	£25 Argos Gift	1095	
	50 ARGOS	£50 Argos Gift	2095	
	150 ARGOS	£150 Argos Gift	5985	
	ARG/BULK	£25 Argos Bulk	995*	
	25 BOOTS	£25 Boots	1095	
	50 BOOTS	£50 Boots	2095	
	150 BOOT	£150 Boots	5985	
	BOOT/BLK	£25 Boots Bulk	995*	
	25 OUR P	£25 Our Price	1095	
	50 OUR P	£50 Our Price	2095	
	150 OUR P	£150 Our Price	5985	
	OURP/BULK	£25 Our Price Bulk	995*	
	25 SAINS	£25 Sainsbury's	1095	
	50 SAINS	£50 Sainsbury's	2095	
	150SAINS	£150 Sainsbury's	5985	
	SAINS/BLK	£25 Sainsbury's Bulk	995*	
	25 DEBS	£25 Debenhams	1095	
	50 DEBS	£50 Debenhams	2095	
	150 DEBS	£150 Debenhams	5985	
	DEBS/BLK	£25 Debenhams Bulk	995*	
	125 AIR M	125 Air Miles Awards	895	
	250 GH	£250 Great Hotels of Britain	795	
	FRANCE	Trip to France	795	
	25 RNIB	£25 Donation to RNIB	840	
		Total points		

* See pages 18-19

USING THIS CATALOGUE inside front

HOW TO ORDER pages 6 & 7

ORDERING ON LINE pages 14 & 15

Action
The No.1 Source for Computers and Supplies

See e-Bonds Supplement for Terms & Conditions. No balances of purchase points can be re-issued. Vouchers are normally despatched within 7 days, but allow up to 28 days. If donating Action vouchers to a local school, please enclose a letter nominating the school or college to which you would like the Action VOUCHER sent. Written confirmation required on company letterhead if address is different to usual delivery address.

Action Services

For all your technical services enquiries we offer a dedicated Services Sales Desk run by trained and experienced staff. Simply call 08701 66 44 77.

DESIGN & PLANNING SERVICES

Technical Consultancy

Project Planning & Design
Project Management
PC & Server Migrations
Messaging Technology
Thin Client Technology
Systems Management
Internetworking Technology

Evaluation Services

Network Survey
Software Evaluations



IMPLEMENTATION SERVICES

Configuration Services

Asset Tagging
Hardware Installations
Software Configuration
Customer Configurations

Deployment Services

Site Audits
Site Evaluation Visit
Deployment to Desk
Network Connection



SUPPORT SERVICES

Preventative Maintenance

Disaster Recovery Planning
File Server Health Check

Software Support

2nd Level Help Desk

Hardware Support

Field Service Maintenance
On-Site Engineering
Workshop Repairs





Action's Services Sales Desk staff can provide clear and knowledgeable information on all our technical services as well as assistance in selecting the best service options to suit your business and IT needs.

Why finance IT?

The right finance or leasing solution can benefit your organisation enabling you to get the most out of your IT budget by:

- ✓ ***Reducing capital outlay***
- ✓ ***Improving cash-flow management***
- ✓ ***Providing simple and easy methods to update your hardware when necesary***

As the value of hardware decreases as soon as it is purchased, many organisations ook to finance and leasing solutions as a cost-effective and flexible alternative to purchasing. Quite simply, leasing is a more flexible payment option than outright purchase. It allows you to change your equipment during the lease rental period and avoids the often heavy financial impact of outright purchase on your cash-flow.

A range of flexible purchase solutions to suit your business and IT needs is now available through Action, so you can secure the IT you need while your capital can be used to support your business growth.

What is leasing?

Having agreed a period for the finance (usually 3 years), the finance provider will purchase the equipment and services you require from Action. You then pay monthly or quarterly lease payments until the end of the lease period. At the end of the contract, you can choose to continue to lease or arrange for its disposal (carried out by the finance provider).

What are the benefits?

The cost and flexibility benefits of a business financing lease can make a crucial difference to both your IT spend and your business. There are also tailor-made operating lease solutions for larger deals (over £50,000) to help reduce your rental charges even further. With the right finance solution, a finance provider can assist you by:

- ✓ Helping you get the most from your IT budget
- ✓ Providing a flexible solution to IT obselescence
- ✓ Managing tax, balance sheet and P&L impact
- ✓ Provide asset management thrughout equipment lifecycle

SERVICES

INDEX BY PRODUCT TYPE

Certificate of Insurance 38
Extended Warranty – Desktop PCs ... 35-36
Extended Warranty – Fax Machines . 35-36
Extended Warranty – Notebook PCs . 34-36
Extended Warranty – Printers 35-36
Hardware Maintenance 24
Hardware & Software Configuration 26
Hardware – Supported Product List 25
Notebook PC Insurance 37
PC Helpdesk Service 30
Repairs – Out of Warranty 39
Support Packs – non-HP Products 31
Technical Support – Compaq 33
Training Courses 27-29
Warranty – Epson 32

INDEX BY MANUFACTURER

Action
Action Services..... 34
Certificate of Insurance..... 38
Extended Warranty – Desktop PCs 35–36
Extended Warranty – Fax Machines35–36
Extended Warranty – Notebook PCs
..... 34–36
Extended Warranty – Printers.... 35–36
Hardware Maintenance..... 24
Hardware & Software Configuration.. 26
Hardware – Supported Product List... 25
Notebook PC Insurance..... 37
Out of Warranty Repairs..... 39

BT
PC Helpdesk Service..... 30

Compaq
Technical Support – Compaq..... 33

Epson
Warranty – Epson..... 32

Hewlett-Packard
SupportPacks..... 31
SupportPacks – non-HP Products.... 31

Interquad
Training Courses..... 27–28

Power IT
Training Courses..... 29



SUPPORT SERVICES

Action

Hardware Maintenance

Action has a UK mainland Field Service Engineering capability, operating out of 12 regional centres, providing a comprehensive range of response & fix maintenance services. These services are available across a wide range of leading products as shown in the Maintenance Supported Hardware list.

Action will fix a hardware component problem on-site within a specified time, or provide loan equipment in the case of repairs that will take longer. The Service provides a standard 16 hour fix on Desktops, Laptops and Printer and an 8 hour fix on Tower and Rack File Servers. Options to upgrade to 8 hour and 4 hour respectively are available as shown below.

- Please note, the lead time for all maintenance services, i.e. the administration period required to set-up a contract, will be 5 days.
- When there is no maintenance contract in place, customers can still call out Action engineers to repair hardware on-site. Details of Action's call out charges are given in the table below.



A KEY TO SYMBOLS:

H Hour

C Call

B Box

SERVICE	UNIT CHARGE	CAT NO	PRICE (£) EX. VAT
Desktop – In Warranty	B	29-39-65	39.00
Desktop – Out of Warranty	B	29-39-89	67.00
Each Monitor over 17" – add the following cost per Desktop	B	29-39-96	32.00
Laptop – In Warranty	B	29-40-05	90.00
Laptop – Out of Warranty	B	29-40-12	110.00
Inkjet/Deskjet Printer – In Warranty	B	29-40-29	27.00
Inkjet/Deskjet – Out of Warranty	B	29-40-36	37.00
Personal Laser Printer Mono (not networked) – In Warranty	B	29-40-43	32.00
Personal Laser Printer Mono (not networked) – Out of Warranty	B	29-40-50	47.00
Upgrade to 8 hour fix on Desktop, Laptop + Printer Cover	B	29-40-67	24.00
Tower Server Maintenance – 8hr fix	B	29-40-74	249.00
Rack Server Maintenance – 8hr fix	B	29-40-81	399.00
External Storage Unit Maintenace – 8hr fix	B	29-40-98	99.00
Tower Server Maintenance – 4hr fix	H	29-17-67	495.00
Rack Server Maintenance – 4hr fix	H	29-30-90	795.00
External Storage Unit Maintenance – 4hr fix	H	29-53-50	199.00
Call Out Charge + First Hour (Normal Working Hours)	H	29-41-39	148.00
Each Subsequent Hour (Normal Working Hours)	H	29-41-46	72.00
Call Out Charge + First Hour (Out of Normal Working Hours)	H	29-41-53	395.00
Each Subsequent Hour (Out of Normal Working Hours)	H	29-41-60	118.00

OTHER ITEMS

FOR PCs, SERVERS & ACCESSORIES SEE PAGES 50–185
FOR PRINTERS SEE PAGES 371–458
FOR SOFTWARE SEE PAGES 788–944

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Hardware – Supported Products

IN WARRANTY

Desktop Personal Computer Compaq, IBM, Toshiba, Hewlett-Packard

Laptop Computer Compaq, IBM, Toshiba, Hewlett-Packard

Stand Alone Printers Hewlett-Packard

Printers Servers Compaq, IBM, Hewlett-Packard

Peripherals Compaq, IBM, Toshiba, Hewlett-Packard

FOR MORE ON SERVICES VISIT www.action.com/services

OUT OF WARRANTY



Desktop Compaq, IBM, Toshiba, Fujitsu, Olivetti, Hewlett-Packard, AST, Dell, Digital



Laptop Compaq, IBM, Toshiba, Fujitsu, Olivetti, Hewlett-Packard, AST, Dell, Digital



Printers Hewlett-Packard, IBM, Lexmark, Epson, Star, Cannon



Servers Compaq, IBM, Fujitsu, Hewlett-Packard

OTHER ITEMS
FOR PCs, SERVERS & ACCESSORIES SEE PAGES 50–185
FOR PRINTERS SEE PAGES 371–458
FOR SOFTWARE SEE PAGES 788–944

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

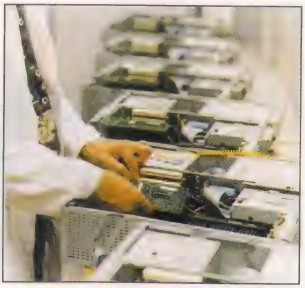
INSTALLATION SERVICES

Action

PC and Printer Configuration

When you place an order for your PC, laptop or printer from Action, you can also have any additional hardware components purchased (such as extra memory, sound cards, or disk drives) installed before your order is delivered to you. Our engineers also load and configure any standard software packages from our Supported Software List that have been purchased at the same time, so your machine arrives to you ready to use.

If you have specific build requirements, our technical consultants can work with you to define and develop customer images and configurations that we will hold for you and apply to your future hardware purchases if required. For customers with large roll outs or who regularly require customised builds, this enables you to achieve overall a quicker, lower cost configuration of machines.



Throughout the configuration process, an audit record is kept on your order to ensure correct and speedy configuration. For a small additional fixed price per unit, we can also provide an asset tagging service that ensures each unit is clearly labelled with its specification and serial number, enabling you to keep an accurate record of your assets.
The Services listed here are only available at time of hardware purchase and all additional hardware components and software items must be on one order. For quotes on specialist configurations (including configurations using a software licensing agreement) please contact Action's Services Sales Desk on 08701 66 44 77.

A KEY TO SYMBOLS:

B Box D Day

SERVICE	DELIVERABLE	LEAD TIME	PERFORMANCE TARGET	UNIT CHARGE	CAT NO	PRICE (£) EX. VAT
Asset Tagging	Provision of product specification and serial number as a labelled box, plus asset register	1 day	Build within 1 day of order completion	B	29-53-53	726.00
Install & Test (PC or Printer)<50	Installation of hardware plus hardware diagnostics check	1 day	Build within 1 day of order completion	B	29-17-17	15.00
Install, Configure & Test<50 Units Order	Installation of standard hardware & software, configuration and diagnostics check	1 day	Build within 1 day of order completion	B	29-08-38	20.00
Install, Custom Configure & Test <50 Units Order	Installation of a customer defined configuration (from agreed configuration sheet) for hardware & software + hardware diagnostics	3 days	Build within 3 days of order completion	B	29-98-34	25.00
Create Custom Configuration Instructions	Consultant site visit to define custom image	5 days	Not Applicable	D	29-17-66	760.75

Discounts available on orders of 10 or more, call the Services Sales Desk FREE on: 08701 66 44 77.

OTHER ITEMS
FOR PCs, SERVERS & ACCESSORIES SEE PAGES 50–185
FOR PRINTERS SEE PAGES 371–458
FOR SOFTWARE SEE PAGES 788–944

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

TRAINING SERVICES

IQ INTERQUAD Professional I.T. Education

Professional IT Education

InterQuad's Education Division offers Authorised technical training from Microsoft, Novell, Lotus, Citrix and A+, as well as providing a quality managed service for our customers to access education on other technogies from major manufacturers such as Cisco, Sun and Oracle, using qualified and quality approved partners. The Industry's top certification are on our door so that we can help you acquire the technical skills you need for real competitive advantage. So, from Microsoft's Certified Systems Engineer or Developer programmes to Novell CNE, Master CNE, Cisco's CCIE or Certified Lotus Professional you only need to ask InterQuad. PC application and multi-meida training are also available to complete our comprehensive specturm of IT Education.

Exclusive to InterQuad Customers

InterQuad's exclusive skills protection guarantee (SPG) and unique Customer Satisfaction Charter (CSC) will ensure that you get exactly what you expect from a leading technical training centre. The SPG will guarantee that if Interquad train a member of your staff who subsequently leaves within a 6 month period they will retrain their replacement for 50% of the SRP. The CSC will ensure that the candidate recieves both course quality and suitability and that they in turn attain first time pass marks or a free repeat training (subject to availability).

Microsoft Certified Technical Education Centre

Lotus. Authorised Education Centre™

A+ CERTIFICATION PROGRAM

CITRIX®

cbt systems

Novell®

CODE	COURSE	DAYS	CAT NO	PRICE (£) EX. VAT
MICROSOFT				
M803	Administering Windows NT 4.0	3	29-61-13	756.00
M922	Supporting Windows NT 4.0 – Core Technologies	5	29-61-20	1116.00
M689	Supporting Windows NT Server Enterprise Technologies	5	29-61-37	1116.00
M688	Internetworking Microsoft TCP/IP on Windows NT 4.0	5	29-61-44	1116.00
M827	Administering System Management Server 2.0	–	29-70-26	765.00
M936	Creating & Managing a Web Server using IIS 4.0	3	29-61-68	836.00
M955	Supporting Windows 98	5	29-61-75	1172.00
M1026	Exchange Server 5.5 Series – Concepts & Administration	3	29-61-82	940.00
M1198	Supporting Windows NT Server 4.0 Terminal Server	3	29-61-99	788.00
MCSE	Microsoft Certified Systems Engineer from:	23	29-62-09	4900.00

Call the Action Services Sales Desk – 08701 66 44 77

OTHER ITEMS

FOR PCs, SERVERS & ACCESSORIES SEE PAGES 50–185
FOR PRINTERS SEE PAGES 371–458
FOR SOFTWARE SEE PAGES 788–944

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

TRAINING SERVICES

InterQuad Courses

IQ INTERQUAD
Professional I.T. Education

CODE	COURSE	DAYS	CAT NO	PRICE (£) EX. VAT
NOVELL				
N520	IntraNetWare NetWare 4.11 Administration	5	29-62-16	999.00
N529	NetWare 4.11 to NetWare 5 Update	3	29-62-23	818.00
N780	Workstation Maintenance with ZenWorks	—	29-22-68	549.00
N555	IntraNetWare: Integrating Windows NT	4	29-62-47	990.00
N560	NetWare 5 Administration	5	29-62-54	1169.00
N575	NDS Design & Implementation	4	29-62-61	749.00
N350	GroupWise 5.5 Administration	—	29-49-52	819.00
CNE4	Certified Novell Engineer – IntranetWare from:	24	29-62-85	5750.00
CNE5	Certified Novell Engineer – NetWare 5 from:	24	29-62-92	5580.00
LOTUS				
LN6870	R4.5 Lotus Notes System Administration I	4	29-63-02	1178.00
LN6885	R4.5 Lotus Notes System Administration II	3	29-63-19	930.00
LN6955	R4.5 Lotus Notes Application Development I	3	29-63-26	899.00
LN6970	R4.5 Lotus Notes Application Development II	4	29-63-33	1238.00
A+				
G110	A+ Hardware Support Skills	5	29-63-57	1028.00
G120	A+ Software Support Skills	3	29-63-64	619.00
N500	A+ Network and Support Skills	–	29-12-50	1098.00
CHDP	A+ Certified Helpdesk Professional	–	29-08-45	739.00
CHDM	A+ Certified Helpdesk Manager	–	29-38-99	839.00
CITRIX				
CTX302.2	Citrix Metaframe 1.8 Administrators	–	29-27-75	999.00
CTX181	Citrix Winframe 1.8 Administrator	–	29-36-85	999.00
APPLICATIONS				
EX7A	Microsoft Excel 7.0 – Advanced	2	29-64-12	305.00
EX971	Microsoft Excel 97 – Introduction	1	29-64-29	154.00
AC971	Microsoft Access 97 – Introduction	1	29-64-36	154.00
WO71	Mirosoft Word 7.0 – Introduction	1	29-64-43	154.00
WO971	Microsoft Word 97 – Introduction	1	29-64-50	154.00
PRO98A	Microsoft Project 98 – Advanced	2	29-64-67	305.00
PP71	Microsoft PowerPoint 7.0 – Introduction	1	29-64-74	154.00
PP971	Microsoft PowerPoint 97 – Introduction	1	29-64-81	154.00
FP981	Microsoft Front Page 98 – Introduction	1	29-64-98	154.00
OF97F	Microsoft Office 97 – Fundamentals	1	29-65-08	154.00
OUT981	Microsoft Outlook 98 – Introduction	1	29-65-15	154.00

OTHER ITEMS

FOR PCs, SERVERS & ACCESSORIES SEE PAGES 50–185
FOR PRINTERS SEE PAGES 371–458
FOR SOFTWARE SEE PAGES 788–944

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

TRAINING SERVICES

POWER IT TRAINING

The National and Local Training Solution

Many people recognise the benefits of calling upon the specialist advice provided by a travel agent or an insurance broker, now Action offer you the same benfits for your training requirements through Power IT. Power IT offers speedy, appropriate and cost effective training solutions based on their partnerships with over 150 leading UK training providers.

Power IT will search through their extensive database to match the training course, date and location you require, to offer you the most cost effective solution. In addition to their extensive UK coverage (with over 150 training locations nationwide) Power IT also provide the same level of service to customers who require on-site or bespoke training – ensuring all your training requirements can be met with just one call.

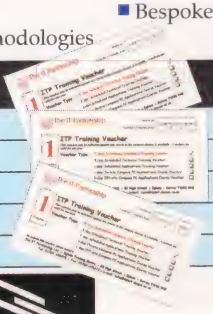
PowerIT also provide Training Vouchers for a wide choice of training locations and suppliers, offering attractive discounts on quantity purchases and allowing you to organise training at your convenience. The vouchers cover scheduled technical training, scheduled PC applications training and company PC applications courses in a selection of 1, 3 and 5 days duration.

Power ITs' purchasing power means that you receive the benefits of competitive pricing and a quality service that provides:

- Access to over 150 of the UK's top training companies.
- Fast, effective response to your enquiry.
- One call service – Call 0800 917 43 91.
- Dedicated free phone for Action customers.
- Same day response guaranteed.
- Free and impartial advice.

For Authorised Training In:

- Application Software
- Networks & Datacomms
- Internet/Intranet
- Project Management
- Desktop Publishing
- Train The Trainer
- Platforms
- Systems Development
- Database
- Certification, Methodologies
- Programming
- Technical Engineering
- IT Management
- Bespoke Solutions



VOUCHER DESCRIPTION	CAT NO	PRICE (£) EX. VAT
Scheduled Technical Training – 3 Day Voucher	45-54-04	900.00
Scheduled Technical Training – 5 Day Voucher	45-54-11	1295.00
Scheduled PC Applications Training – 1 Day Voucher	45-54-28	175.00
Company Off-Site PC Applications Training – 1 Day Voucher	45-54-35	700.00
Company On-Site PC Applications Training – 1 Day Voucher	45-82-74	575.00

·comtec· GeoTRAIN LYNX IT Training Sun microsystems THE NETWORK IS THE COMPUTER™

For orders, advice and information call the IT dedicated Action Hotline on 0800 917 43 91.

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

SUPPORT SERVICES

PC HelpDesk Service designed for mid-market and small businesses

Freefone software help, 24 hours a day, 365 days a year, for PC dependent organisations

People now commonly find themselves battling every day against complex pieces of technology – powerful PCs loaded with software and wired to high-tech peripheral devices, with instruction manuals often written in near-impenetrable jargon.

BT has unveiled a low-cost software support service, delivered via a **Free**fone 0800 telephone number, to the computer user. *BT ComputerCall* provides software support for a fixed and very attractive annual price, *with no hidden extras.* This can help companies to control their costs and may even improve their total support costs, by supplementing or replacing existing arrangements. It requires no capital outlay, which is a key benefit for many companies, both big and small. *BT ComputerCall* can also help to reduce frustration and especially expensive downtime caused by software problems, improving the overall productivity of a company's workforce. The service is also ideal for providing support to mobile staff, home workers, trainees and students, depending on their computer.



The new *BT ComputerCall* solution not only offers affordable peace-of-mind on software support to small businesses, but a range of ways for mid-sized businesses to extend the capabilities of their existing IT support teams. These include:

- Extending the hours when your PC users can get software support, without extending your headcount.
- Being able to support key staff working at home, at night or at weekends without paying overtime or on-call supplements to your support team or others.
- Being able to offer continuous and immediate software support to your PC users, even when your support staff is fully occupied on other matters.

Each *BT ComputerCall* user is issued with a membership card and a unique Personal Identification Number for verification purposes. Users are entitled to receive support from the HelpDesk by calling a **Free***fone* number printed on their individual card.

The service costs just £99.95 + VAT per user, per year – with no hidden extras.

In return, expert answers to problems on virtually every major PC software program, leading office software suites and the Microsoft Windows and NT operating systems are now available at any time of any day or night, via a **Free***fone* call to an 0800 number.

The service also covers generalised help with common types of hardware, such as printer installation, configuration assistance or guidance on how to use a device.

SERVICE	CAT NO	PRICE (£) EX. VAT
BT ComputerCall	29-65-46	99.95

Terms and conditions may be obtained via Fax-Back Service on 0800 389 9618.

OTHER ITEMS
FOR PCs, SERVERS & ACCESSORIES SEE PAGES 50–185
FOR PRINTERS SEE PAGES 371–458
FOR SOFTWARE SEE PAGES 788–944

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

SUPPORT SERVICES

HEWLETT® PACKARD

SupportPacks

Hewlett-Packard offer a range of support services. On-site Service Packs for HP PCs and printers and SupportPacks for all HP products render invaluable maintenance support for all Hewlett-Packard users.

HP SupportPacks are 3 year on-site warranties that provide an extremely cost-effective way to protect yourself from the risk of high repair costs (from just 26p per week). **See pages 424, 425 for full details and benefits.**



Below, Action brings you the best-selling support services available for HP hardware. In addition, HP offer a robust set of service solutions for the networking environment, including **Installation and Configuration SupportPacks, LAN SupportPacks** and **Comprehensive Network SupportPacks**.

PACK REF.	PRODUCTS COVERED	CAT NO	PRICE (£) EX. VAT
H5461A	DeskJet 340, 670, 690C, 720C	77-29-12	39.95
H5465A	OfficeJet 590, 360LX Palmtop, DeskJet 1120C, 890C	96-00-85	49.95
H5470A	HP ScanJet 6100C	77-05-50	79.95
H5471A	OfficeJet Pro 1150C, 1170C, LaserJet 3100, HP 620LX	81-58-17	102.95
H5473A	DeskJet 1600C, 1600CM, LaserJet 1100, 1100A	71-58-90	81.95
H5475A	SureStore Tape 30E DLT, HP 2000C/CN	72-47-64	138.95
H5476A	LaserJet 6P, 6MP/Omnibook 800, 2000, 3000, 4100, 7100	71-59-17	117.00
H5479A	LaserJet 5, 5M, 5N, 4000 series	71-53-02	179.95
H5480A	HP Vectra PC, HP Kayak	72-96-04	99.99
H5482A	HP LaserJet 5000 Series	76-13-01	235.00
H5501A	Colour LaserJet 5, 5M	96-40-81	619.00

HP On-Site Service Packs are offered as an addition to their range of SupportPacks, comprising a 12 month hardware maintenance service for HP PCs and printers which are not covered by standard SupportPacks. **See pages 424, 425 for full details.**



PACK REF.	PRODUCTS COVERED	CAT NO	PRICE (£) EX. VAT
H5600P	700 Terminals HP DJ 540, 600, 690C, 670	95-19-60	33.95
H5601P	Colour/PaintJet/XL/ScanJet Mono, 560, 660, 5L	95-19-77	49.95
H5602P	HP LaserJet 4L, IIP, IIIP, 4P, 5P, 6P, 6MP versions/DJ1200C/M, 850, 870	95-19-84	83.95
H5603P	HP Vectra PC/DJ1600C/M XM, XP, VL, VE, LJ4000/5000 Series	95-19-91	139.00
H5604P	HP LaserJet 4, 4M, 4+/4M+/4V/4MV, OfficeJet LX, 1150C	95-20-00	149.00
H5605P	HP LaserJet II, IID and HP Vectra PC 386/25, 486, QS, RS, DJ200/300	95-20-17	259.95
H5606P	HP Vectra Server 486T, ST, Netserver LC, LE, LF LaserJet 5Si	95-20-24	397.95
H5607P	HP LaserJet 3Si, 4Si, HP Netserver LM	95-20-48	479.95
H5608P	HP DesignJet 750/755, Color LaserJet 5/5M	85-24-85	489.95

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

SUPPORT SERVICES

EPSON

Epson Extended Warranty

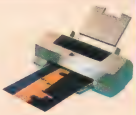
Epson CoverPlus

Epson CoverPlus offers a flexible warranty scheme for all Epson printers, scanners and video projectors, offering customers a 3 year on-site maintenance service.

As with the previous EPSON CoverPlus, EPSON CoverPlus also provides support for all products with the option to extend and upgrade the 1 year return-to-base warranty to a 3 year 8hr response on-site warranty.
One of the differentiation features EPSON offers its customers compared to other alternative offerings is on-site maintenance, whereby the customer is confident of the quality of service and product they are receiving. Unlike other printer manufacturers who simply replace the customers' product with a refurbished machine leaving no details of the age or previous usage of the replacement machine, every effort will be made by EPSON to repair the original product before a replacement unit is offered.

For more information contact Action Services Sales Desk on 08701 66 44 77

EPSON COVER plus

GROUP TYPE	MODELS		CAT NO	PRICE (£) EX. VAT
Group 2	LX-300, LQ-300, Stylus Color 440, Stylus Color 640		29-12-80	35.00
Group 3	FX-880, LQ-570+, Stylus Color 740, Stylus Color 850, Stylus Photo 700, EPL-5700 series		29-12-97	59.00
Group 4	FX-1170, FX-1180, FX-2180, LQ-870, LQ-2070, Stylus Photo EX, Stylus Color 1520, GT-9500 series		29-13-07	99.00
Group 5	DLQ-3000+, EPL-N1200 series		29-13-21	175.00
Group 6	DFX-5000+, Stylus Color 3000, EPL-N2000, GT-12000 series		29-13-52	275.00
Group 7	DFX-8500, Stylus Pro 5000, DFX-8000, RIP station 5000		29-13-76	399.00

SPECIAL PRICING WHEN BUNDLED WITH PRINTER (8 HOUR RESPONSE SERVICE)

OTHER ITEMS
FOR PCs, SERVERS & ACCESSORIES SEE PAGES 50–185
FOR PRINTERS SEE PAGES 371–458
FOR SOFTWARE SEE PAGES 788–944

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

SUPPORT SERVICES

COMPAQ

Compaq CAREPAQ

If you're looking for extra support for your new Compaq system, CarePaq is the comprehensive and simple solution. CarePaq enhances the cover provided by your product warranty to deliver peace of mind from day one of your new PC and comes in a range of service levels, so you can choose the right level of support for your IT and business needs. To help you choose the right service option, here are the answers to frequently asked questions:

Q. ***What's included in the CarePaq box?***
A. Included in the box are service description with Terms & Conditions, contract number stickers, service telephone numbers and a registration form which must be sent back to Compaq in the pre-paid envelope provided with your CarePaq contract attached. Alternatively, you can register and activate your CarePaq on-line via the internet.

Q. ***What's covered by CarePaq?***
A. Cover for your system unit, monitor (up to 21″), keyboard and mouse purchased with the system, as well as additions or changes to the system configuration using qualified Compaq options at time of purchase.

Q. ***What's the lead-time on a CarePaq?***
A. CarePaqs in stock with Action will be dispatched within 24 hours of placing your order. For out of stock CarePaqs, an additional 48hrs must be added to the expected delivery date.

Q. ***What does 'workthrough' mean?***
A. Workthrough means an engineer will remain on-site until the fault is fixed. If a part needs to be dispatched, the engineer will wait until the part reaches the customer site – even if you have a 9hr × 5 day service level. However, if the part will not arrive until the next business day, you can agree with the engineer to return the following business day.

PRODUCTS COVERED	SERVICE DESCRIPTION	CAT NO	PRICE (£) EX. VAT
CarePaq for Presario	3 Years On-Site Next Business Day Response	29-17-59	145.00
CarePaq for Workstations	3 Years On-Site Next Business Day Response	29-94-76	201.78
	3 Years On-Site 4 Hour Response 9 × 5 Workthrough	29-17-19	206.91
	3 Years On-Site 4 Hour Response 24 × 7 Workthrough	29-70-21	419.00
CarePaq for Entry Level Servers	3 Years On-Site 4 Hour Response 9 × 5 Workthrough	63-11-87	386.99
	3 Years On-Site 4 Hour Response 24 × 7 Workthrough	29-49-47	640.00
CarePaq for Workgroup Servers	3 Years On-Site 4 Hour Response 9 × 5 Workthrough	25-29-37	765.00
	3 Years On-Site 4 Hour Response 24 × 7 Workthrough	29-08-39	1500.00
CarePaq for Departmental Servers	3 Years On-Site 4 Hour Response 9 × 5 Workthrough	25-69-19	1295.00
	3 Years On-Site 4 Hour Response 24 × 7 Workthrough	29-27-72	1929.00
CarePaq for Enterprise Servers	3 Years On-Site 4 Hour Response 9 × 5 Workthrough	29-36-81	1896.00
	3 Years On-Site 4 Hour Response 24 × 7 Workthrough	29-98-33	3400.00
CarePaq for Storage	3 Years On-Site 4 Hour Response 9 × 5 Workthrough	24-29-16	655.00
	3 Years On-Site 4 Hour Response 24 × 7 Workthrough	29-76-56	1122.00

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

SUPPORT SERVICES

Extended Warranty

Your existing manufacturer's warranty can be extended to give you extra peace of mind. The extended warranty will give you a next working day response and on-site service from day one. You also have the chance to renew your policy until your product is 5 years old.

- Extending your manufacturer's warranty to 3 years FULL on-site service from DAY ONE.
- No bills to pay – in most cases the repairer will claim directly on your behalf.
- All Warranties must be purchased within 30 days of buying the hardware product.
- Notebook PCs, in cases other than for minor repairs, will be returned to the manufacturer.
- Where manufacturer's warranty includes 3 years cover for parts, OfficePlan consists of an upgrade to cover labour costs.

3 YEAR ON-SITE SERVICE FOR ALL COMPAQ AND TOSHIBA PRODUCTS WITH A NEXT WORKING DAY RESPONSE

Action Office PLAN – COMPUTER BREAKDOWN INSURANCE



Prices include Insurance Premium Tax

Please Note: This warranty option is only available on Compaq and Toshiba Desktop and Notebook PCs.

TOSHIBA COMPAQ

WHERE EXISTING WARRANTY IS...	HARDWARE VALUE	CAT NO	PRICE (£) INC. TAX
Toshiba Notebook PCs with manufacturer's **3 Year Warranty** (Return-To-Base) as standard	UP TO £2000	29-13-83	198.00
	UP TO £3000	29-13-90	228.00
	UP TO £4000	29-14-00	259.00
	UP TO £5000	29-14-17	290.00
Toshiba Notebook PCs with manufacturer's **1 Year Warranty** (Return-To-Base) as standard	Extended to 2 years	29-14-24	186.00
	Extended to 3 years	29-14-31	293.00
Compaq Desktop PC with manufacturer's **3 year warranty** (On-Site in Year One only) as standard	UP TO £2000	29-14-48	116.00
	UP TO £3000	29-14-55	130.00
	UP TO £4000	29-14-62	144.00

Please note – repairs to Toshiba notebooks will be made off-site.

Discounts available on orders of 10 or more, call the Services Sales Desk on 08701 66 44 77.

OTHER ITEMS
FOR PCs, SERVERS & ACCESSORIES SEE PAGES 50–185
FOR PRINTERS SEE PAGES 371–458
FOR SOFTWARE SEE PAGES 788–944

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

SUPPORT SERVICES

Extended Warranty

Your existing manufacturer's warranty can be extended to give you extra peace of mind.

The extended warranty will give you a next working day response and on-site service from the second year of ownership. You also have the chance to renew your policy until your product is 5 years old.

Prices include Insurance Premium Tax

Please Note: 1 year extended warranties are only available for products with 1 year manufacturer's warranties.

1 YEAR EXTENDED WARRANTY – NEXT WORKING DAY RESPONSE ON-SITE

- Extending your warranty for 1 year will give you on-site service from the second year of ownership.
- No bills to pay – in most cases the repairer will claim directly on your behalf.
- All Warranties must be purchased within 30 days of buying the hardware product.
- Notebook PCs, in cases other than for minor repairs will be returned to the manufacturer.
- Where manufacturer's warranty includes 3 years cover for parts, OfficePlan consists of an upgrade to cover labour costs.

DESCRIPTION	HARDWARE VALUE	CAT NO	PRICE (£) INC. TAX
Notebook PC	UP TO £2000	29-03-08	147.00
Notebook PC	UP TO £3000	29-03-15	217.00
Notebook PC	UP TO £4000	29-03-22	286.00
Notebook PC	UP TO £5000	29-03-39	356.00
Notebook PC	UP TO £6000	29-03-46	426.00
Desktop PC	UP TO £1000	29-03-53	69.00
Desktop PC	UP TO £2000	29-03-60	106.00
Desktop PC	UP TO £3000	29-03-77	155.00
Desktop PC	UP TO £4000	29-03-84	204.00
Monitors (Purchased separately)	UP TO £1000	29-04-18	34.00
Monitors (Purchased separately)	UP TO £2000	29-04-25	52.00
Monitors (Purchased separately)	UP TO £3000	29-04-32	90.00
Printers	UP TO £300	29-04-63	49.00
Printers	PORTABLE TO £300	29-04-70	52.00
Printers	UP TO £500	29-04-87	58.00
Printers	UP TO £1000	29-05-04	88.00
Printers	UP TO £2000	29-05-11	135.00
Printers	UP TO £3000	29-05-28	174.00
Fax Machines	UP TO £500	29-05-42	68.00
Fax Machines	UP TO £1000	29-05-59	86.00
Fax Machines	UP TO £1500	29-05-66	101.00

Discounts available on orders of 10 or more, call the Services Sales Desk on 08701 66 44 77.

OTHER ITEMS
FOR PCs, SERVERS & ACCESSORIES SEE PAGES 50–185
FOR PRINTERS SEE PAGES 371–458
FOR SOFTWARE SEE PAGES 788–944

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

SUPPORT SERVICES

Extended Warranty

Extending your existing manufacturer's warranty for 2 years ensures that you are covered against most eventualities for the next 3 years, including your existing manufacturer's warranty.

Prices include Insurance Premium Tax

2 YEAR EXTENDED WARRANTY – NEXT WORKING DAY RESPONSE – ON-SITE

Please Note: 2 year extended warranties are only available for products with 1 year manufacturer's warranty.

- On-site service for 2 years from second year of ownership.
- Full cover for the cost of repair, including spare parts and labour.
- All Warranties must be purchased within 30 days of buying the hardware product.
- Notebook PCs, in cases other than for minor repairs, will be returned to the manufacturers.
- Where manufacturer's warranty includes cover for parts, OfficePlan consists of an upgrade to cover labour costs.

DESCRIPTION	HARDWARE VALUE	CAT NO	PRICE (£) INC. TAX
Notebook PC	UP TO £2000	29-05-73	263.00
Notebook PC	UP TO £3000	29-05-80	390.00
Notebook PC	UP TO £4000	29-05-97	517.00
Notebook PC	UP TO £5000	29-06-07	644.00
Notebook PC	UP TO £6000	29-06-14	772.00
Desktop PC	UP TO £1000	29-06-21	118.00
Desktop PC	UP TO £2000	29-06-38	184.00
Desktop PC	UP TO £3000	29-06-45	272.00
Desktop PC	UP TO £4000	29-06-52	360.00
Printers	UP TO £300	29-07-31	83.00
Printers	PORTABLE TO £300	29-07-48	87.00
Printers	UP TO £500	29-07-55	99.00
Printers	UP TO £1000	29-07-79	147.00
Printers	UP TO £2000	29-07-86	239.00
Printers	UP TO £3000	29-07-93	308.00
Fax Machines	UP TO £500	29-08-10	122.00
Fax Machines	UP TO £1000	29-08-27	155.00
Fax Machines	UP TO £1500	29-08-34	184.00

Discounts available on orders of 10 or more, call the Services Sales Desk on 08701 66 44 77.

OTHER ITEMS
FOR PCs, SERVERS & ACCESSORIES SEE PAGES 50–185
FOR PRINTERS SEE PAGES 371–458
FOR SOFTWARE SEE PAGES 788–944

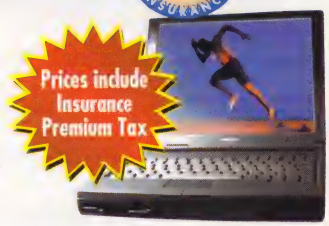
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

SUPPORT SERVICES

Notebook PC Insurance

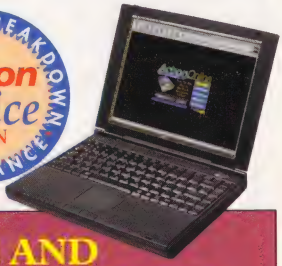
In addition to Extended Warranties, Action can offer the opportunity of insuring against the cost of expensive repairs to or replacement of your valuable computer equipment caused by accident or theft.

There are some sensible exclusions, a full copy of which you will receive from Cornhill Insurance (the underwriters of Action OfficePLAN), along with your confirmation of cover. A summary of the main terms and conditions, however, appears on page 38 of this catalogue.









ACCIDENTAL DAMAGE AND THEFT INSURANCE FOR NOTEBOOK PCs
SEE PAGE 38 FOR TERMS AND CONDITIONS

DESCRIPTION	HARDWARE VALUE	LENGTH OF COVER	CAT NO	PRICE (£) INC. TAX
Notebook PC	Up to £2000	12 months	29-14-93	133.00
Notebook PC	Up to £3000	12 months	29-15-03	196.00
Notebook PC	Up to £4000	12 months	29-15-10	259.00
Notebook PC	Up to £5000	12 months	29-15-27	322.00
Notebook PC	Up to £6000	12 months	29-15-34	385.00
Notebook PC	Up to £2000	24 months	29-15-41	161.00
Notebook PC	Up to £3000	24 months	29-15-58	237.00
Notebook PC	Up to £4000	24 months	29-15-65	313.00
Notebook PC	Up to £5000	24 months	29-15-72	389.00
Notebook PC	Up to £6000	24 months	29-15-89	465.00
Notebook PC	Up to £2000	36 months	29-15-96	172.00
Notebook PC	Up to £3000	36 months	29-16-06	253.00
Notebook PC	Up to £4000	36 months	29-16-13	334.00
Notebook PC	Up to £5000	36 months	29-16-20	415.00
Notebook PC	Up to £6000	36 months	29-16-37	496.00

Discounts available on orders of 10 or more, call the Services Sales Desk on 08701 66 44 77.

OTHER ITEMS
FOR PCs, SERVERS & ACCESSORIES SEE PAGES 50–185
FOR PRINTERS SEE PAGES 371–458
FOR SOFTWARE SEE PAGES 788–944

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

SUPPORT SERVICES

ACTION OfficePLAN BREAKDOWN INSURANCE — CERTIFICATE OF INSURANCE – PART 1

(Valid only when the Certificate of Insurance – Part 2 is attached.) **IMPORTANT – PLEASE KEEP THIS IN A SAFE PLACE**

WHAT IS COVERED

The Service Level is dependent upon the chosen level of cover (see Certificate of Insurance – Part 2) either BREAKDOWN & ACCIDENTAL DAMAGE or ACCIDENTAL DAMAGE & THEFT:–

1. Breakdown of product
   Repair costs if your insured product breaks down up to the original purchase price paid
2. Accidental damage of product
   After 30 days, repair costs if your insured product breaks down as a result of an accident. This is limited to the market value of the Insured Product at the time of the loss.
3. Theft of Product
   After 30 days, replacement costs if your insured product is stolen, up to the replacement cost of a new product of similar specifications.

If Independent Opinion declare the product uneconomical to repair a negotiated settlement within the above limits will be made.

WHAT IS NOT COVERED

1. Breakdown or damage caused by:–
   (a) wilful act or neglect
   (b) disregard of manufacturer's instructions
   (c) dismantling, transit or installation
   (d) appliance accessories or peripherals that were not an integral part of the original installation
   (e) faulty software or programming
   (f) computer tapes or diskettes
   (g) an incorrect or abnormal electrical supply, defects in external wiring, cable or electrical connection not forming part of the insured product
   (h) non-payment of a power supply account
   (i) computer virus
2. Repair costs for:–
   (a) any insured product that does not have the manufacturer's security seal in place
   (b) routine service inspection of maintenance
   (c) other maintenance including but not limited to adjustment of external controls
   (d) any product failure loss or damage arising from Exclusions 2(b) and 2(c) above
   (e) repairs carried out by persons not authorised by the Insurers
   (f) repair or replacement caused by a manufacturer's defect or recall of the product
   (g) cosmetic items internal and external such as scratches, denting or corrosion
   (h) replacement or adjustment to ribbons, cartridges, bulbs and light covers
   (i) repairs where the Action OfficePLAN Security sticker is not affixed to the product or has been tampered with
   (j) parts where you have chosen to cover the labour content only of repair costs
   (k) objects or substances not normally associated with the product
   (l) plugs and fuses
   (m) damage to non working parts such as cabinet trim and fittings
3. Any loss suffered as a result of not being able to use the product or any loss over and above the cost of the product or other losses of any nature whatsoever.
4. Any alteration, repair, replacement caused by the failure of electrical equipment, computer hardware, associated equipment and accessories to process the change from 1999 to 2000 and beyond.
5. Call-out charges where no fault is found.
6. Theft of the Product:
   (a) from an unattended motor vehicle except where the Product has been locked in the boot and all car security systems have been activated
   (b) from any property, premises, or any mode of transport other than in 6(a) above, except where the Product has been hidden/locked away or stolen by forcible and violent entry or exit
   (c) from any person, except where force has been used or threatened
   (d) where you have not taken all reasonable precautions to prevent the theft of the Product.

ARE THERE ANY OTHER LIMITATIONS?

1. The insurance is limited to the UK., the Isle of Man and the Channel Islands
2. You cannot transfer the insurance to someone else without our permission.
3. You must notify the Insurers in writing in the event that the equipment is to be relocated.
4. The policy can be cancelled during the manufacturer's warranty period and the premium is refundable providing no claims have been made
5. The total loss of the product due solely to the non-availability of replacement or substitute parts in which situation the Insurers shall only be liable for the estimated cost of repairs had the part or parts been available.
6. The Insurers have no responsibility whatsoever for any of the following items
   (a) removable software, storage media, data retrieval, any backing up security medium or business resumption requirements
   (b) building wiring or telephone/communicating equipment
   (c) consumable items as specified by the product manufacturer/distributor
   (d) Printers scanners modems or other peripherals unless they comprised part of the original installation
7. Costs recoverable from a person under the terms of any other guarantee, warranty, or insurance, including a household insurance policy.
8. The Insurers shall not be liable for any failure arising from fire, burst pipes, earthquake, nuclear contamination, sonic boom or sunspot activity.
9. If a settlement is made because the product is considered to be uneconomical to repair then
   (a) the Insurers may take possession of the product
   (b) The cover will end and the Cerficate of Insurance Part 2 should be returned to Domestic Insurance Services Limited for cancellation
   (c) No refund of premium is payable
10. If a settlement is made because the product is stolen then
    (a) the Insurers will take possession of the product if recovered
    (b) the cover will end and the Certificate of Insurance Part 2 should be returned to Domestic Insurance Services Limited for cancellation
    (c) no refund of premium is payable
11. This Agreement will be governed by English Law and decisions of the English Courts.

WHAT TO DO IF THE EQUIPMENT BREAKS DOWN

1. If your Product develops a fault we ask you to check any plug fuse and the manufacturer's operating instructions before proceeding any further. Remember that if no fault is found you may be required to pay a call-out-charge. If the fault persists:

   For all **PC** and **Fax Machine** repairs call the **Computer Repair Helpline** on 0541 55 00 10 (the cost of a local call) for advice and details of your nearest authorised repairer.

   N.B. Advise Domestic Insurance Services Limited on (01892) 515414 if the repair bill is likely to cost more than £150, or if repair is either impossible or considered to be uneconomical.
2. Providing you present your valid Certificate of Insurance Part 2, the Manufacturers security seal is in place and the Action OfficePLAN Security sticker is on the product (to the satisfaction of the repairer) you will not normally be asked to pay for the repair. In some circumstances this will not be possible so having settled the repair bill obtain an invoice which must state the date and cause of fault, the remedial work and list the cost of labour and any replacement parts. This should be sent to Domestic Insurance Services Limited, Cornhill House, 6 Vale Avenue, Tunbridge Wells, Kent, TN1 1EH quoting your certificate number.

WHAT TO DO IF YOUR PRODUCT IS STOLEN

1. If your product is stolen notify the Police of theft and obtain a crime report number.
2. Notify Domestic Insurance Services Limited on (01892) 515414 as soon as possible and in any event within 14 days.
3. Provide at your own expense to the Insurer such information relating to the events leading to the theft of the Product, as may reasonably be required by the Insurer.

We ask you to take all reasonable precautions to prevent or diminish theft of, destruction of and damage to the Product.

Failure to honour your undertakings will cause you to forfeit your entitlements under this insurance.

This insurance has been arranged by Action Computer Supplies as an agent for the insurers, Cornhill Insurance PLC, who accept responsibility for Action Computer Supplies, in accordance with the Association of British Insurers Code of Practice for the selling of general insurance, a copy of which is available upon request.

The terms and conditions of this breakdown insurance policy doe not affect your statutory rights.

NOTICE TO CUSTOMERS

You are advised that any telephone calls made to our administration and claims handling units may be recorded at random. These recordings may be used to monitor the accuracy of information provided by customers and our own staff; they may also be used to allow additional training to be provided to our staff or to prove that our procedures comply with legal requirements, our staff are aware that conversations can be monitored and recorded.

CORNHILL INSURANCE PLC

This Insurance is underwritten by: Cornhill Insurance Public Limited Company, registered in England No. R4G38. Registered Office: 32 Cornhill, London EC2V 3LJ

Administered by: Domestic Insurance Services Limited, Cornhill House, 6 Vale Avenue, Tunbridge Wells, Kent TN1 1EH (01892) 511 949

Domestic Insurance Services Limited is part of the Cornhill Group

OTHER ITEMS

FOR PCs, SERVERS & ACCESSORIES SEE PAGES 50–185
FOR PRINTERS SEE PAGES 371–458
FOR SOFTWARE SEE PAGES 788–944

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Out of Warranty Repairs

Repairs to Toshiba, Compaq and IBM equipment are provided at Action's Service Centre, where a fixed price evaluation will be made to provide fault diagnosis and repair quotation. Once the evaluation has been made, no additional labour costs will be charged for repairs.

On acceptance of the quotation we aim to repair hardware within one week (subject to spares availability). The procedure to follow for this Service is:

*Please ensure that the equipment is adequately packaged to withstand the rigours of transportation. Action will not be held responsible for goods damaged in transit from the customer location to the Action Service Centre.

FEATURES:

- Fixed price evaluation service at £50+VAT (including return carriage).
- No extra labour charges incurred beyond the initial £50 evaluation charge.
- Only manufacturer original parts will be used to carry out a repair.
- 3 months warranty on all parts and labour.
- Turnaround target of 1 week (subject to spare part availability).

TOSHIBA COMPAQ IBM™

PROCEDURE: 5 steps

1 Call our **Action Service Centre on 0181 843 4800** to discuss your requirements and request a repair.

2 The Service Centre will fax/post you an Evaluation Agreement form which must be completed.

3 Send the Equipment with the Signed Evaluation Agreement Form to:
Action Service Centre*
12 Windmill Lane
Southall
MiddlesexUB2 4QD

4 Action aim to test and evaluate the unit within 24 hours of receipt.

5 A full fault diagnosis and quotation will be faxed/posted stating the full cost of repair. No extra labour costs will be charged beyond the initial £50 evaluation charge.

OTHER ITEMS

FOR PCs, SERVERS & ACCESSORIES SEE PAGES 50–185
FOR PRINTERS SEE PAGES 371–458
FOR SOFTWARE SEE PAGES 788–944

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Action offers only



www.action.com/showcase

Showcase is Action's largest and most successful mailer, looking after new products, brand leaders and special offers. Since October, Showcase has been migrating people to the Action website via the Showcase site where we offer all our special deals, bundles, promotions, new products and new technology from all your favourite brand leaders.

For the latest information on any of the above, visit our website at www.action.com/showcase.

Action
The No.1 Source for Computers and Supplies

the best deals...



www.action.com/ops

At www.action.com/ops you can view the best deals and products that are updated each week. Products to replenish in your stock of storage media and printer/fax supplies and to replace and upgrade office equipment at a fraction of the cost.

Check these prices and up to the minute stock levels and availability at action.com/ops. If there are any products that you would like us to feature e-mail us at ops@action.com



Some amazing deal

The best in HP InkJet Technology with an ultra-compact design...



HP DeskJet 930C

- 9ppm mono
- 2.9ppm colour
- 2400x1200 dpi

Cat No: 53-00-75

only **£109.61** +VAT **online**

The perfect companion for your home PC

Canon BJC-1000

- 3.4ppm mono
- 0.52ppm colour
- 720x360 dpi

Cat No: 52-95-70

only **£44.97** +VAT **online**



A monitor that doesn't compromise on quality



ADi ProVista E55 monitor

- 17.1" display 16" viewable

Cat No: 52-95-45

only **£129.11** +VAT **online**

Action
The No.1 Source for Computers and Supplies

Please visit www.action.com/

available online...

Brand NEW from Compaq

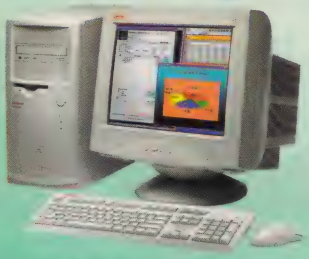
Compaq Prosignia S Desktop PC

- 500MHz Intel Celeron processor
- 64MB SDRAM
- 8.4GB HDD
- 40x CD-ROM
- 2xAGP ATI-Xpert Pro-8MB Graphics Card

Cat No: 63-54-59

only **£388.63** +VAT online

(Monitor not included)



As left but with...

- 600MHz Intel Pentium III processor
- 10GB HDD

Cat No: 63-95-64

only **£483.30** +VAT online

Free you from the limits of cords...



Logitech Cordless Desktop i-Touch Keyboard & Mouse

Cat No: 22-52-06

only **£49.95** +VAT online

All offers are while stocks last. See the www.action.com/showcase for all our latest deals.

showcase for all our latest offers...

Some amazing deals

Special Introductory Offer

Belkin USB Busport Mobile



The perfect solution for notebook or Apple PowerBook users who don't have USB ports. Adds two 12Mbps USB ports.

Cat No: 49-56-13

only **£54.99** +VAT
online

Buy 5 GET 1 FREE...

Intel Ethernet Pro 100+ Card



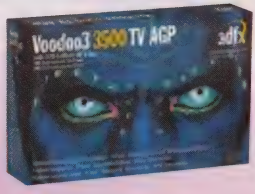
- Advanced management capabilities
- Improves network response time
- Suitable for all network sizes

Cat No: 06-39-02

only **£189.18** +VAT
online

Powerful graphics...

3dfx Interactive Voodoo3 3500 AGP TV Graphics Card



- 16MB SDRAM memory
- 2048x1536 max resolution

Cat No: 64-31-04

only **£99.99** +VAT
online

available online...

Record over an hour in under 20 seconds



Modular Technology SoulMate 48MB MP3 Player & Docking Station

Cat No: 69-17-93

only **£65.99** +VAT **online**

Special Introductory Price

Belkin USB Dockstation



The easiest and most convenient way to connect devices to your laptop or legacy-free PC.

Cat No: 49-96-53

only **£99.99** +VAT **online**

FREE Modem Cable Reel...

Psion Dacom NetGlobal 56k Modem+ 10/000 CardBus PCMCIA Card (2pk)

FREE 2m Modem Cable Reel



Cat No: 05-38-95

only **£369.65** +VAT **online**

All offers are while stocks last. See the www.action.com/showcase for all our latest deals.

showcase for all our latest offers...

Some amazing deal

FIRST 50 Customers Only...

Win2000 Professional Version Upgrade

Combines the best features of Windows NT 4.0 and Windows 98 to offer even greater use and increased productivity.

Cat No: 27-37-01



only **£81.58** +VAT **online**

SAVE OVER £13...

Office 2000 Premium Version Upgrade

Combines eight powerfully integrated applications to give you even easier access and share information.

Cat No: 48-12-64



only **£246.09** +VAT **online**

SAVE OVER £23...

Win2000 Pro & MS Resource Kit

Buy Win2000 Professional & MS Resource Kit: Win2000 Professional for ONLY £232.09 & SAVE OVER £23 on normal Cat Prices.

Cat No: 06-18-19



only **£232.09** +VAT **online**

All offers are while stocks last. See the www.action.com/showcase for all our latest deals.

Action
The No.1 Source for Computers and Supplies

Please visit www.action.com/

available online...

Master Your Hard Drive with...

PowerQuest Partition Magic 5.0

Allows you to create, resize, merge, convert partitions on your hard drive without destroying data, while reclaiming space.

Cat No: 49-19-00



only £39.95+VAT online

The Solution for High-Impact Web Sites...

Macromedia Flash 4

Create animations, compact navigation interfaces, dazzling effects and much more with the best website developer.

Cat No: 49-39-12



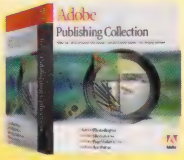
only £189.95+VAT online

Brings Together 4 Award-Winning Tools...

Adobe Publishing Collection 7.0

Brings together 4 award-winning tools for creative business professionals: Adobe PageMaker 6.5 plus, Adobe Photoshop 5.5, Adobe Illustrator 8.0, and Adobe Acrobat 4.0 .

Cat No: 49-95-96



only £649.00+VAT online

Promotional catalogue numbers must be used when placing orders.

Some amazing deal

FREE HP DeskJet 610C Printer
HP Black LaserJet toner cart



HP (5pk) Black LaserJet4000/4050 Toner Cart (C4127X) + HP DeskJet 610C Printer FREE (C6450A)

Cat No: 04-22-83

only **£367.55** +VAT online

FREE Iomega Zip Case...
(5pk) PC Zip 250MB disks



Iomega (5pk) PC Zip 250MB Formatted Grey Disks+ Iomega Zip Case FREE (Holds 6 Zip Disks)

Cat No: 04-30-86

only **£58.26** +VAT online

Great Value InkJet Paper...
Epson A4 Photo Paper



Epson (1pk) A4 Photo Quality InkJet Paper 100 Sheets (S041061)

Cat No: 41-13-83

only **£5.97** +VAT online

All offers are while stocks last. See the www.action.com/ops for all our latest deals.

available online...

Unbeatable Price...
Diamond Executive Chair

Syncro adjustable back and forward tilt seat (Royal Blue)

Cat No: 95-06-62



only **£99.00**+VAT **online**

3 Pack Notebook Security...
Kensington Microsaver

Secure your notebook. Only 5.5oz, includes 6ft steel galvanised cable

Cat No: 04-02-97

only **£85.00**+VAT **online**



Price Cut Fax Machine...
Brother Fax 930

- 15min answering recording time
- 16 one touch (32 speed dials)

Cat No: 45-88-27

only **£161.95**+VAT **online**



Action **Office Products & Supplies**

www.action.com/ops

ops for all our latest offers...

NOTEBOOK PCs AND ACCESSORIES

INDEX BY PRODUCT TYPE

Batteries 71, 95-96
Carry Cases 94, 101-103, 105-106
Compatible Battery Packs 99
Docking Stations 79
DVD-ROM Drive – PC Card 109
Guide to – Portable PC Terminology 51
Handheld PCs 122, 124
Handheld PCs & Accessories 123
Hard Disk Drives 71
Hard Drives – PC Card 109
Memory Upgrades 71, 79, 93
Modems 97
Multimedia Accessories 92
Notebook PC Accessories ... 55-56, 65, 110
Notebook PC Accessories – Acer 79
Notebook PC Accessories – Compaq 66
Notebook PC Accessories – Fujitsu/Siemens 79
Notebook PC Accessories – IBM 71
Notebook PC Accessories – Samsung ... 79
Notebook PC Accessories – Sony 60
Notebook PC Accessories – Toshiba . 92-97
Notebook PC Carry Cases 100-107
Notebook PC Clearance Bargains 98
Notebook PCs . 52-54, 57-59, 61-64, 67-70, 74-78, 83-91
Notebook PCs – with CD-ROM 52-54, 57-59, 61-64, 67-70, 72-78, 83-84, 86
Notebook PCs – with DVD-ROM . 52, 58-59, 63-64, 67, 70, 85, 91
Palm Accessories 115-116
Palm Handheld Organisers 111-114
Palmtop PC Accessories 117-120
Palmtop PCs 117-119
Palmtop PC Software 121
PCMCIA Cards 108, 110
PCMCIA Hard Drives 110
PDAs 125
Power Adaptors 79
Removable Storage 109
SCSI Adaptors 108
Software for Psion Series 5 121
Tape Drives – Removable Media 108
Video Conferencing Camera Kit 97

INDEX BY MANUFACTURER

Acer
Notebook PC Accessories. 79
Notebook PCs. 76–77
Notebook PCs – with CD-ROM. . . 76–77

Amacom
Hard Drives – PC Card. 109
Removable Storage. 109

Belkin
Notebook PC Carry Cases. 107

Compaq
Handheld PCs. 122, 124
Notebook PC Accessories. 65–66
Notebook PCs – with CD-ROM. . . 61–64
Notebook PCs – with DVD-ROM. . 63–64

Freecom
CD-ROM Drive – PC Card. 109
DVD-ROM Drive – PC Card. 109

Fujitsu/Siemens
Notebook PC Accessories. 79
Notebook PCs. 74
Notebook PCs – with CD-ROM. . . 72–74

Hewlett-Packard
Handheld PCs & Accessories. 123
Notebook PC Accessories. 55–56
Notebook PCs. 52–54
Notebook PCs – with CD-ROM. . . 52–54
Notebook PCs – with DVD-ROM. 52

IBM
Notebook PC Accessories. 71
Notebook PCs. 67, 69–70
Notebook PCs – with CD-ROM. . . 67–70
Notebook PCs – with DVD-ROM. . 67, 70

Iomega
Clik! Drives and Disks. 108
Tape Drives – Removable Media. . . . 108

Kodak
Palm Accessories. 116

LG Electronics
Handheld PCs. 124

New Media
SCSI Adaptors. 108

Palm Computing Platform
Palm Accessories. 115
Palm Handheld Organisers. 111–114

Portable Add-Ons
PCMCIA Hard Drive Cards. 108
PCMCIA Hard Drives. 110

Psion
Palmtop PC Accessories. 117–120
Palmtop PCs. 117–119
Software for Psion Series 5. 121

Puma
Palm Accessories. 116

Samsonite
Notebook PC Carry Cases. 105–106

Samsung
Notebook PC Accessories. 79
Notebook PCs. 78
Notebook PCs – with CD-ROM. 78

Sharp
Notebook PCs. 75
Notebook PCs – with CD-ROM. 75

Socket
PCMCIA Serial Adaptor Card. 110

Sony
Notebook PC Accessories. 60
Notebook PCs – with CD-ROM. . . 57–59
Notebook PCs – with DVD-ROM. . 58–59

Targus
Notebook PC Accessories. 110
Notebook PC Carry Cases. 100–104

Toshiba
Carry Cases. 94
Multimedia Accessories. 92
Notebook PC Accessories. 92–97
Notebook PCs. 83–91
Notebook PCs – Introduction. 82
Notebook PCs – with CD-ROM83–84, 86, 90
Notebook PCs – with DVD-ROM. . 85, 91

Xircom
PDAs. 125

PORTABLE PC TERMINOLOGY GUIDE

The Portable PC market is now one of the most complex and fast moving areas in the IT industry. With this rate of change it is easy to get left behind with the latest features and terminology, so we have created this guide to help you purchase a Portable PC.

PROCESSOR TYPE
The processor controls the functions of the computer – the faster the processor runs in MHz, the faster the computer can process instructions given to it by its various components. All of our portables are based on one of the following processors: Pentium MMX – specifically designed to enhance multimedia capabilities; Pentium II – offers a powerful processor with 512Kb of built-in cache. Pentium III mobile processors are new to this edition and offer the fastest mobile processors to date.

RAM (RANDOM ACCESS MEMORY)
Memory can be just as important and indeed, works alongside a fast processor to speed up your applications and enable you to work on several documents or applications simultaneously. For Windows 95, Windows 98 and a large number of applications, a minimum of 16MB is recommended. You will need more memory if you are running graphics or CAD applications. All portable computers are easily upgradable with additional memory.

HARD DRIVE
There are performance advantages to be gained with a large hard drive and portables featured all have over 1GB of storage space. Capacities up to 14.1GB are available here and drives are often removable, so when one drive gets full, just plug in a new one.

FLOPPY DRIVE
Some portables are supplied with a modular floppy drive, interchangeable with the CD-ROM drive, or more notebooks now have both floppy drive and CD-ROM built-in.

DISPLAY
All portables featured have a colour screen. The two technologies available at present are based on the same LCD (liquid crystal display) technology.

Dual Scan Passive Matrix – low cost solution offering quality approaching TFT when viewed head on although it does not offer the wide viewing angle of a TFT display.

TFT Active Matrix – If you require optimum screen quality, a TFT display is the only choice offering excellent clarity, fast refresh rates and a wide viewing angle. SVGA or XGA resolutions are available.

CD-ROM
Compact disk read-only memory or media. Speeds up to 24x are now available for notebook PCs.

DVD-ROM (DIGITAL VERSATILE DISK)
DVD is a new optical disk technology that is expected to rapidly replace the CD-ROM disk (as well as the audio compact disk) over the next few years. DVD holds 4.7GB of data now and will eventually be able to store 17 gigabytes of video, audio or other information – more than 28 times as much as a standard CD-ROM.

MULTIMEDIA
Most notebook PCs are now supplied with a soundcard and CD-ROM drive, this makes them multimedia ready. Multimedia can include text, sound, animated graphics and video. Multimedia programs may also include some interactivity features.

POWER SOURCE
All of our Portable PCs offer mains or battery operation. All of the machines are supplied with an auto-sensing AC adaptor which can be used in most countries of the world in conjunction with a suitable adaptor plug. Alternatively, you can use the internal battery which could be one of two types:
NiMH (nickel metal hydride): These batteries offer higher capacities than old technology nickel cadmium batteries. Less likely to be affected by the 'memory effect'.

Lithium Ion: The newest rechargeable battery chemistry available, lithium ion can give the same capacity as NiMH in a smaller, lighter package.

PCMCIA SLOTS
You can easily upgrade your portable with credit card sized Ethernet, Token Ring, modem, SCSI and various other technologies, using the PCMCIA slots. Portables are typically supplied with 1x PCMCIA Type III and 2x PCMCIA Type II slots. See pages 108 to 110 for further PCMCIA details.

IRDA INFRA-RED PORT
Allows wireless data transfer between products with an infra red port e.g. notebook to printer or notebook to desktop.

ZV (ZOOMED VIDEO) PORT
Allows for MPEG file decompression, providing full motion, full screen video on a notebook PC without impairing the system performance.
To take advantage of the ZV port, and MPEG decoder, a PC Card is required.

USB SUPPORT (UNIVERSAL SERIAL BUS)
A plug and play interface between a computer and add-on devices (such as audio players, joysticks, keyboards, telephones, scanners and printers). With USB, a new device can be added to your computer without having to add an adaptor card or even having to turn the computer off.

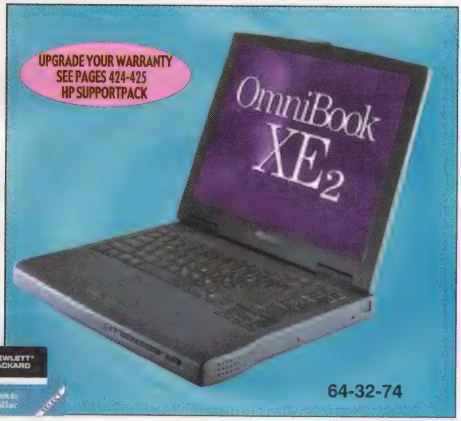
DOCKING STATION/ PORT REPLICATOR
Optional accessory providing desktop style connectivity to peripherals, enhanced multimedia capability and in some cases, connection to a network. Our product specification tables will tell you all of the major specifications for each notebook PC.
If you have any doubts as to which product you require, please call our Pre-Sales Technical Support team on 08701 66 44 44.

OTHER ITEMS
FOR CARRY CASES SEE PAGES 95, 100–107
FOR PCMCIA CARDS SEE PAGES 108–110
FOR APPLE NOTEBOOK PCs SEE PAGE 129

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW *item on this page*

NOTEBOOK PCs – WITH CD/DVD-ROM



The **OmniBook XE$_2$** is a reliable solution for the budget conscious mobile business professional who wants a convenient, all-in-one computer. The OmniBook XE$_2$ notebook PCs offer you a choice of powerful Intel Mobile Pentium III 500 or 500MHz and Intel Mobile Celeron 500MHz processors with 32 or 64MB of SDRAM. With their true colour 12.1" HPA/TFT SVGA or 14.1" TFT XGA displays and superb stereo sound quality these notebook PCs bring your presentations to life.

These notebooks are targeted at owners, managers and office workers in businesses of all sizes who are looking for:

- An affordable notebook PC that provides the functionality their companies need to support multimedia presentations, Internet access and basic business applications.
- A product that is easy to use and ready to operate right out of the box.

Model	OmniBook XE2 (F2051W)	OmniBook XE2 (F2052W)	OmniBook XE2 (F2053W)	OmniBook XE2 (F2065W)	OmniBook XE2 (F2055W)
Processor	Cel(500MHz)		PII(500MHz)	Cel(500MHz)	PIII(600MHz)
RAM	32MB	64MB			
Hard drive	5GB				10GB
Floppy drive	Integrated 3.5" 1.44MB				
CD/DVD-ROM drive	24x CD				6x DVD
Modem	Integrated 56K V.90				
Display	12.1" SVGA HPA	12.1" SVGA TFT		14.1" XGA TFT	
Keyboard	87/88 key full-size keyboard, numeric keypad, 12 function keys, touch pad on palm rest, **spill-resistant**				
Power supply	Universal AC Adaptors (100-240V)				
Battery	NiMH	Lithium Ion			
Operating system	Win 98	Win 98/Win 2K			
Dimensions (W × D × H)	311 × 249 × 40mm				
Weight	3.0kg				
Warranty	12 months worldwide parts and labour (see HP SupportPacks for Warranty Upgrade Options – pages 424–425)				

NO SUPPORT FOR DVD MPEG MOVIE PLAYBACK UNDER WNT

	DESCRIPTION	PROCESSOR	RAM	DISPLAY	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
EW	OmniBook XE$_2$ (F2051W) FDD/CD/56K W98	Cel-500MHz	32MB	12.1" HPA	64-32-74	CHECK ONLINE	♦	♦	FREE Call
EW	OmniBook XE$_2$ (F2052W) FDD/CD/56K W98/2K	Cel-500MHz	64MB	12.1" TFT	64-95-82	CHECK ONLINE	♦	♦	FREE Call
EW	OmniBook XE$_2$ (F2053W) FDD/CD/56K W98/2K	PIII-500MHz	64MB	12.1" TFT	64-19-77	CHECK ONLINE	♦	♦	FREE Call
EW	OmniBook XE$_2$ (F2065W) FDD/CD/56K W98/2K	Cel-500MHz	64MB	14.1" TFT	64-23-30	CHECK ONLINE	♦	♦	FREE Call
EW	OmniBook XE$_2$ (F2055W) FDD/DVD/56K W98/2K	PIII-600MHz	64MB	14.1" TFT	64-70-88	CHECK ONLINE	♦	♦	FREE Call

OTHER ITEMS

FOR HP ACCESSORIES SEE PAGES 55, 56
FOR CARRY CASES SEE PAGES 100–107

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NOTEBOOK PCs

The **OmniBook 900** is ideal for those looking for maximum portability. They are lightweight with long battery life with a short recharge time, are extemely reliable, and offer easy remote connectivity. Functioning as a desktop replacement, the OmniBook 900 offers a choice of processors, including the new Intel Pentium III with Speedstep technology which optimises power for battery or mains operation, resulting in significant performance improvements. Expansion is achieved through a choice of optional docking solutions and Modules including CD-ROM, DVD and LS-120 drives.

SEE PAGES 55/56 FOR HP ACCESSORIES

FOR TECHNICAL SERVICES SEE PAGES 23–39



Model	OmniBook 900
Processor	Intel Pentium III (450, 500, 600/500 or 650/500MHz)
RAM	64MB SDRAM (expandable to 256MB)
Hard drive	6.4 or 12GB
Floppy drive	Modular 3½" 1.44MB
CD-ROM drive	Optional
Display	12.1" SVGA (64-49-69) or 13.3" XGA TFT
Keyboard	Full 87/88 keys with touch pad and pointing stick
Ports	Parallel, serial, 2 × USB, PS/2 keyboard/mouse/infrared, VGA, docking connector
Power supply	Autosensing 100/240 AC adaptor
Battery	Lithium-ion
Operating system	Windows 95/98 (WNT or W2K available for all models)
Dimensions (W × D × H)	300 × 25 × 32mm (64-49-69) or 304 × 237 × 35mm
Weight	1.79kg (64-49-69) or 1.89kg
Warranty	12 months worldwide parts & labour limited

NO SUPPORT FOR DVD MPEG MOVIE PLAYBACK UNDER WNT

DESCRIPTION	PART NO	PROCESSOR	RAM	HDD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
OmniBook 900	F1769W	PIII 450MHz	64MB	6.4GB	64-49-69	1565.08	➧	➧	1569.00
OmniBook 900	F1770W	PIII 500MHz	64MB	12GB	64-70-68	1754.61	➧	➧	1759.00
OmniBook 900	F1979W	PIII 600/500MHz	64MB	6.4GB	64-49-79	1810.47	➧	➧	1815.00
OmniBook 900	F1980W	PIII 650/500MHz	64MB	12GB	64-12-78	2445.33	➧	➧	2449.00

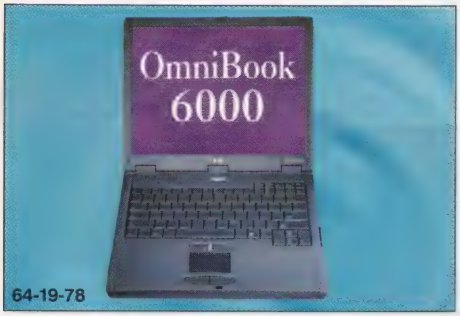
OTHER ITEMS

FOR CARRY CASES SEE PAGES 100–107
FOR PCMCIA CARD GUIDE & INDEX SEE PAGES 108–110
FOR GUIDE TO DIGITAL CAMERAS SEE PAGE 329

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▸▸ Save £££'s!
▸▸ Check live stock
▸▸ Track order status

NEW *item on this page*

NOTEBOOK PCs – WITH CD/DVD–ROM



64-19-78

Our newest product within this family — the HP OmniBook notebook combines all the best features of our current product line with an entirely new design for high-performance business computing. This notebook PC offers the reliability, compatibility, industry-leading security and low cost of ownership IT departments aren't willing to compromise. Plus, with up to 24-month lifecycles, this and our existing OB900 and OB4150 offer customers great stability so much so that when models do change, their consistent images, migration tools and cross-product-line accessories — including docking solutions — make transitioning easy and reduce cost of ownership.

Model	OmniBook 6000
Processor	Intel Celeron 550MHz or PIII-600, 650 or 700MHz
RAM	64MB and 128MB SDRAM standard (expandable to 512MB)
HDD	5, 6, 10, 12 and 18GB-removable
FDD	Modular 3.5" 1.44MB
CD/DVD-ROM Drive	Modular 24xCD-ROM or 6xDVD-ROM
Modem/Ethernet	Integrated 56k modem and LAN (10/100MB) Mini-PCI Type IIIA Card*
Display	14.1" or 15" XGA TFT
Keyboard	Full 87/88 keyboard with touchpad and pointing stick
Power Supply	Universal AC Adaptor (100- to 240-V)
Battery	Lithium-Ion
Operating System	Win 95 or W2K
Dimensions (W × D × H)	315 × 261 × 320mm
Weight	2.27kg
Warranty	3 year worldwide parts and labour. See HP Support Packs for warranty upgrades – p424, 425.

*OmniBook 6000 can be ordered without Mini-PCI Card.

NO SUPPORT FOR DVD MPEG MOVIE PLAYBACK UNDER WNT

	DESCRIPTION	PROCESSOR	RAM	HDD	DISPLAY	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	OmniBook 6000 (F2072W) CD	Cel-550	64MB	5GB	14.1" TFT	64-19-78	1575.06	➧	➧	1579.00
NEW	OmniBook 6000 (F2081W) CD	PIII-600/500	64MB	6GB	14.1" TFT	64-32-75	2055.91	➧	➧	2059.00
NEW	OmniBook 6000 (F2079W) CD	PII-600C/500	128MB	6GB	14.1" TFT	64-95-83	2345.48	➧	➧	2349.00
NEW	OmniBook 6000 (F2083W) CD	PIII-650/500	128MB	10GB	14.1" TFT	64-19-79	2646.03	➧	➧	2650.00
NEW	OmniBook 6000 (F2087W) DVD	PIII-700/500	128MB	12GB	14.1" TFT	64-23-31	2874.68	➧	➧	2879.00
NEW	OmniBook 6000 (F2090W) DVD	PIII-700/500	128MB	18GB	15" TFT	64-39-40	3195.80	➧	➧	3199.00

OTHER ITEMS

FOR CARRY CASES SEE PAGES 100–107
FOR HP ACCESSORIES SEE PAGES 55, 56
FOR GUIDE TO PRINTERS SEE PAGE 374

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NOTEBOOK OPTIONS

Options	Part Number	OmniBook 900	OmniBook XE2	OmniBook 6000	Cat No.	Price (£) Ex. VAT
MEMORY						
32MB SDRAM PC-100	F1456B	■	■	■	64-39-09	93.41
64MB SDRAM PC-100	F1457B	■	■	■	64-27-88	154.67
128MB SDRAM PC-100	F1622B	■	■	■	64-36-93	337.91
256MB SDRAM PC-100	F1654B	■	■	■	64-18-80	544.75
DOCKING						
HP Port Replicator	F1451A	■		■	69-70-59	125.49
HP Mini-Dock	F1452A	■		■	69-70-28	281.13
HP Docking Tray for OB6000 (replacement)	F2012A			■	64-37-20	656.70
HP Docking System & Monitor Stand	F1477A	■		■	69-70-04	510.70
HP Port Replicator	F1738A		■		69-70-23	76.07
COMMUNICATIONS						
HP 10/100 Ethernet + 56k Modem (Xircom)	F1623A	■	■	■	17-54-00	168.29
HP 56k Global PC Card Modem (Xircom)	F1625A	■	■	■	17-23-01	96.26
HP 10/100 Fast Ethernet PC Card (3Com)	F1626B	■	■	■	17-12-72	91.49
HP Realport Combo Card (Xircom)	F1643A	■	■	■	17-08-57	168.29
POWER						
HP AC Adaptor	F1454A	■	■	■	69-70-66	59.71
HP Auto/Airline Power Adaptor	F1455A	■	■	■	69-70-73	59.71
HP Rechargeable Lithium-Ion Battery	F1705A	■			64-18-77	130.35
HP External Battery Charger	F1620A				54-11-50	80.90
HP External Battery Charger	F1706A	■			69-39-00	96.29
HP Rechargeable Lithium-Ion Battery	F1739A		■		69-27-76	94.38
HP Rechargeable Lithium-Ion Battery	F1466A				69-71-90	122.96
HP Rechargeable Li-Ion Battery (Primary)	F2019A			■	64-98-64	135.17
HP Rechargeable Li-Ion Battery (Secondary)	F2014A			■	64-78-55	143.86
HP Li-Ion Battery Charger	F2011A			■	64-64-83	81.86
SUPPORT PACKS (For OmniBooks with 1 Year Std Warranty)						
2 Year Warranty Ext & 48-Hour Rapid Repair	H5715A	■		■	45-85-35	223.74
2 Year Warranty Extension HP Collect/Return	H2848A	■		■	29-49-54	141.05
SUPPORT PACKS (For OmniBooks with 3 Year Std Warranty)						
3-Year 48hr Rapid Repair	H5703A	■		■	45-85-59	120.94
3 Year Next Business Day on Site	H5476A	■		■	71-59-17	113.87
2 Year Warranty Extension HP Collect/ Return	H2850A		■		69-78-54	111.16

OTHER ITEMS

FOR HP NOTEBOOKS SEE PAGES 52–54
FOR HP DESKTOPS SEE PAGES 137–144

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

NOTEBOOK OPTIONS

Options	Part Number	OmniBook 900	OmniBook XE2	OmniBook 6000	Cat No.	Price (£) Ex. VAT
MEDIA MODULES/CABLES/CARRY CASES						
HP LS-120 SuperDisk Module	F1470A	■			69-36-84	136.73
HP 3.5" int/ext FDD Module	F1472A	■			69-98-35	87.02
HP 24X CD-Rom Drive Module	F1474A	■			69-53-54	166.24
HP 4X DVD-ROM Drive Module	F1653B	■			69-76-58	201.66
HP DVD MPEG-2 Decoder w/video out adaptor	F1761B	■			69-64-65	81.16
HP Zip Drive Module	F1783A	■			69-76-72	150.78
HP PS72Y Adaptor	F1469A	■	■		69-70-80	18.77
HP Floppy Disk Drive Cable	F1473A	■			69-93-14	21.08
HP Nylon Carry Case	F1606A	■	■		55-58-61	42.06
HP High Capacity Nylon Carry Case	F1771A	■	■		69-78-02	65.49
HP 3.5" int/ext FDD module (replacement)	F2013A			■	64-78-57	CHECK ONLINE
HP LS-120 SuperDisk Module	F2022A	■	■	■	64-78-56	141.05
HP 24x CD-ROM Drive Module	F2017A	■	■	■	64-82-38	CHECK ONLINE
HP 6x DVD-ROM Drive Module	F2015A	■	■	■	64-15-29	209.15
HP Zip Drive Module	F2009B	■	■	■	64-62-62	CHECK ONLINE
HP PS/2Y Adaptor	F1469A	■	■	■	69-70-80	18.77
HP Floppy Disk Drive Cable	F2008A	■	■	■	64-32-77	CHECK ONLINE
HP Nylon Carry Case	F1606A	■	■	■	55-58-61	42.06
HP High Capacity Nylon Carry Case	F1771A	■	■	■	69-78-02	65.49
HARD DRIVES						
HP 12.0GB Hard Disk Drive (Replacement)	F1707B		■		69-82-28	471.18
HP 12.0GB Hard Disk Drive (Replacement)	F1744B	■			69-15-19	471.18
HP 18.0GB Hard Disk Drive (Replacement)	F2016B	■	■	■	64-34-73	CHECK ONLINE
HP 18.0GB Hard Disk Drive (Module)	F2018A	■	■	■	64-91-76	CHECK ONLINE
HP 120.GB Hard Disk Drive Module	F1746B	■	■		69-62-54	491.28
HP 6.0GB Hard Disk Drive	F1762B			■	69-31-46	388.13
SECURITY						
HP Encryption SmartCard Security System	F1612B	■	■	■	69-34-68	64.52
HP SmartCard 5-Pack	F2104B	■	■	■	74-27-73	35.63
HP Kensington Lock	F1645A	■	■	■	69-51-97	35.63

OTHER ITEMS

FOR HP NOTEBOOKS SEE PAGES 52–54
FOR HP DESKTOPS SEE PAGES 137–144

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NOTEBOOK PCs – WITH CD-ROM

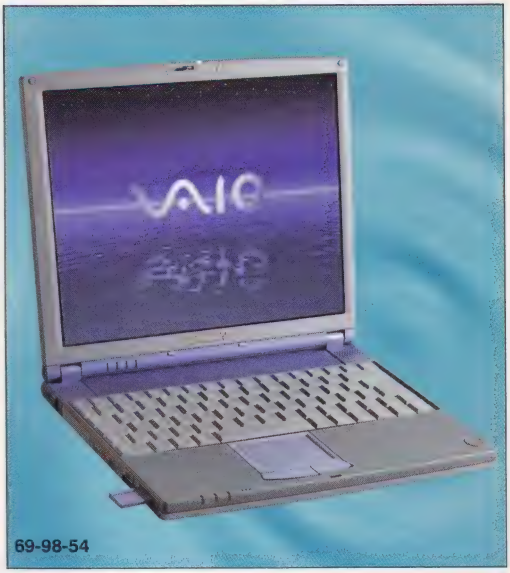
SONY

The **PCG-Z600RE** is a combination of the best elements of Sony's A4 format and B5-sized models and the first notebook to feature a built-in memory stick slot for quick and easy audio/video data storage and exchange. It's small, super and light and very eye-catching with its design reminiscent of the award-winning VAIO 500 series.

With a super-fast 500MHz Pentium III mobile processor, 128MB of RAM, 12GB hard drive, 12.1" XGA resolution TFT display and integrated Ethernet port (10Base-T/100Base-TX), this notebook will be the envy of many A4 desktop replacements.

This notebook also boasts a unique feature, the integrated Memory Stick slot allows a storage medium that's thin, lightweight and ultra-portable, yet sufficiently robust to allow for high-speed data access and multiple exchanges of audio and video data.

NEW RANGE AVAILABLE FROM JUNE SEE www.action.com for details



69-98-54

SEE PAGE 60 FOR SONY VAIO ACCESSORIES

Model	VAIO PCG-Z600RE
Processor	Intel Pentium III 500MHz
RAM	128MB SDRAM expandable to 256MB
Hard drive	12GB
Floppy drive	External 3.5" 1.44MB
CD-ROM drive	External 16× max
Display	12.1" XGA TFT
Ports (on notebook)	1 × PCMCIA Type II slot, 2 × USB (1 × normal, 1 × mini), i.LINK, IrDA, LAN, Memory Stick, port replicator connector, mic, headphone
Ports (on supplied port replicator)	Parallel, serial, VGA, USB, i.LINK
Power supply	Autosensing 100-240V AC adaptor
Battery	Lithium-ion
Operating system	Windows 98
Dimensions (W × D × H)	275 × 226 × 29.3mm
Weight	1.7kg including battery
Warranty	12 months

NO SUPPORT FOR DVD MPEG MOVIE PLAYBACK UNDER WNT

DESCRIPTION	PROCESSOR	RAM	DISPLAY	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
VAIO PCG-Z600RE Win 98	PIII500MHz	128MB	12.1"TFT	64-98-54	1764.58	➧	➧	1769.00

OTHER ITEMS

FOR CARRY CASES SEE PAGES 94-102
FOR PC CARD GUIDE & INDEX SEE PAGE 103

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

NOTEBOOK PCs – WITH CD/DVD-ROM

SONY



64-08-69

CAMCORDER NOT INCLUDED

Interaction with external digital audio-video devices such as Sony camcorders, digital cameras and MiniDisc players is made easier by the fast iLINK port built into the F400 models.

The **F400 series VAIO notebooks from Sony** offers traditional desktop functionality in a mobile solution which embraces the demands of modern business life. **VAIO PCG-F400** is the cost-effective version that does not scrimp on features which include a built-in CD-ROM drive and FDD and powered by the immensely popular Intel Mobile Celeron 466MHz processor.

The **PCG-F403** uses the latest Intel Mobile Pentium III 450MHz processor and includes an integral DVD drive for seamless video, games and music. For the ultimate portable desktop replacement, the **PCG-F409** boasts the very latest Intel Mobile Pentium III 650MHz processor with SpeedStep technology.

SpeedStep optimises performance so that when the F409 is running on mains power or being used with the optional docking station, the processor works at full speed. When on the move and relying on battery power, performance is automatically adapted so that energy is conserved and battery life extended.

The F409 also includes an integral DVD drive and features the new NeoMagic graphics card with 3D accelerator to take full advantage of 3D simulation.

Model	VAIO PCG-F400	VAIO PCG-F403	VAIO PCG-F409	VAIO PCG-F409K
Processor	Intel Celeron 466MHz	Intel Pentium III 450MHz	Intel Pentium III 650MHz	
RAM	64MB SDRAM expandable to 256MB		128MB SDRAM expandable to 256MB	
Hard Drive	6GB		18.1GB	
Floppy Drive	Modular 3.5" 1.44MB			
CD-ROM Drive	Fixed internal 24×	—	—	—
DVD-ROM Drive	—	Fixed internal 4×		
Display	13.0" SVGA HPA	14.1" XGA TFT	15.0" XGA TFT	
Ports	Parallel, serial, 1 × Type III & 2 × Type II PC Card, PS/2, 2 × USB, NTSC/PAL-out, port replicator connector, VGA-out, IrDA, iLINK			
Power supply	Autosensing 100–240V AC adaptor			
Battery	Lithium-ion			
Operating system	Windows 98			Windows 2000
Dimensions (W×D×H)	324×265.5×48.4mm	324×265.5×46.9mm	324×265.5×54.1mm	
Weight	3.35kg inc. battery	3.3kg inc. battery	3.5kg inc. battery	
Warranty	12 months			

NEW RANGE AVAILABLE FROM JUNE SEE www.action.com for details

NO SUPPORT FOR DVD MPEG MOVIE PLAYBACK UNDER WNT

DESCRIPTION	PROCESSOR	RAM	HDD	DISPLAY	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
VAIO PCG-F400	Cel 466MHz	64MB	6GB	13.0" HPA	64-49-81	921.26	➧	924.49	923.57
VAIO PCG-F403	PIII 450MHz	64MB	6GB	14.1" TFT	64-12-79	1545.13	➧	➧	1549.00
VAIO PCG-F409	PIII 650MHz	128MB	18.1GB	15.0" TFT	64-08-69	2555.16	➧	➧	2559.00
VAIO PCG-F409K	PIII 650MHz	128MB	18.1GB	15.0" TFT	64-39-22	2616.06	➧	➧	2619.99

OTHER ITEMS

FOR CARRY CASES SEE PAGES 100–107
FOR PC CARD GUIDE & INDEX SEE PAGE 108–110

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
»Save £££'s!
»Check live stock
»Track order status

NOTEBOOK PCs – WITH CD/DVD-ROM

SONY

Sony's new VAIO PCG-N505SN combines breath-taking design and high-performance on the move and closes the gap between A4 and sub-notebooks with its hardware features. Thinner than a VHS video cassette, this ultraportable is only 1.2kg and yet packs a heavyweight punch.

The **PCG-C1XD** integrates a digital camera into a full function Windows 98 SE notebook that weighs just 1kg. Mobile reporting, communication and interaction can be visual activities, allowing mobile users to use an array of new applications and increase productivity.

The ultimate in innovative design, the **VAIO PCG-X18** features several groundbreaking advancements in PC technology. In A4 format and weighing less than 3kg, the X18 boasts Intel's incredibly fast Mobile Pentium III 650MHz processor with SpeedStep technology. This switches the processor to a reduced speed while running on battery power to conserve energy and extend working time away from the mains. The full speed returns when the notebook is returned to mains power or is run through the supplied port replicator. The 13.3" edge-less TFT LCD screen offers superior image quality on the truly flat panel display, which maximises the viewing angle. The keyboard tilts to an ergonomic typing position while also allowing a cooling air flow around the processor.



64-37-06

NEW RANGE AVAILABLE FROM JUNE SEE www.action.com for details

Model	VAIO PCG-N505SN	VAIO PCG-C1XD	VAIO PCG-X18
Processor	Intel Pentium II (400MHz)		Intel Pentium III (650MHz)
RAM	64MB SDRAM expandable to 128MB		128MB SDRAM expandable to 256MB
Hard drive	6GB	12GB	18.1GB
Floppy drive	External 3.5" 1.44MB (USB)		Fixed internal 3.5" 1.44MB
CD-ROM drive	External 16× max	—	—
DVD-ROM drive	—	—	Fixed internal 4×
Display	10.4" XGA TFT	8.9" XGA TFT	13.3" XGA TFT
Ports	1 × Type II PC Card, USB, iLINK & IrDA on notebook, Parallel, serial, VGA-out, USB & iLINK on supplied port replicator	1 × Type II PC Card, USB, iLINK, NTSC/PAL-out, IrDA, VGA-out	1 × Type III, 2 × Type II PC Card, parallel (on bundled FDD cable), USB, FDD, iLINK, IrDA, VGA on notebook, NTSC/PAL-out, optical out, parallel, serial, 1 × Type III/II PC Card, PS/2, VGA-out, 2 × USB, Control A1, iLINK, line-in/out on supplied port replicator
Power supply	Autosensing 100–250V AC adaptor		
Battery	Lithium-ion		
Operating system	Windows 98 SE	Windows 98 SE	Windows 98
Dimensions (W×D×H)	259×208×22.2mm	248×153×29mm	303×250.7×45mm
Weight	1.2kg inc. battery	1kg inc. battery	2.9kg inc. battery
Warranty	12 months		

NO SUPPORT FOR DVD MPEG MOVIE PLAYBACK UNDER WNT

DESCRIPTION	PROCESSOR	RAM	HDD	DISPLAY	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
VAIO PCG-N505SN	PII 400MHz	64MB	6GB	10.4" TFT	64-28-01	1315.71	➧	➧	1319.00
VAIO PCG-C1XD	PII 400MHz	64MB	6.4GB	8.9" TFT	64-18-86	1315.71	➧	➧	1319.00
VAIO PCG-X18	PIII 650MHz	128MB	18.1GB	13.3" TFT	64-37-06	2860.70	➧	➧	2865.00

OTHER ITEMS

FOR CARRY CASES SEE PAGES 100–107
FOR PC CARD GUIDE & INDEX SEE PAGES 109–110

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW item on this page

NOTEBOOK PC ACCESSORIES

SONY

	DESCRIPTION	FOR USE WITH	PART NO	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	F100/200/300 SERIES AND X9							
	AC Adaptor (UK)	X9/F300/F400	PCGA-ACX1	64-78-20	66.44	68.99	68.30	67.62
	Rechargeable battery	F100/200/300/X9	PCGA-BP71	64-70-37	125.48	◗	128.99	127.70
	Port replicator	F100/200/300	PCGA-PRF1A	64-17-39	102.13	◗	104.99	103.94
	Mini docking station	X9 only	PCGA-PSX1	64-64-77	209.14	◗	214.99	212.84
NEW	64MB memory*	F100/200/300	PCGA-MMF64	64-23-48	222.75	◗	228.99	226.70
	128MB memory*	F100/200/300	PCGA-MMF128	64-95-02	397.85	◗	408.99	404.90
	500 SERIES							
	Slip Cover	500 series	PCGA-CCS5	64-54-18	21.18	21.99	21.77	21.55
✂	AC adaptor (UK)	500 series	PCGA-AC5E	29-47-20	67.46	68.99	68.58	68.16
✂	AC adaptor (UK)	N505X/LT	PCGA-AC5N	64-78-21	66.44	68.99	68.30	67.62
	Port replicator	500 series	PCGA-PR5	13-65-96	95.33	98.99	98.00	97.02
	I.LINK port replicator	N505X/LT	PCGA-UPR5	64-78-22	102.13	◗	104.99	103.94
	Extension battery	500 series	PCGA-BP52	64-22-80	125.48	◗	128.99	127.70
	32MB memory	500 series	PCGA-MM532SD	64-18-04	125.48	◗	128.99	127.70
	64MB memory	500 series	PCGA-MM564SD	64-62-55	222.75	◗	228.99	226.70
NEW	Just Rams 64MB Memory	505G/GX/CIX	VCSOVAIO505/64	69-17-92	105.62	◗	114.99	111.54
	C1F AND C1XN							
	Slip cover	C1XN	PCGA-CCS1N	64-18-87	21.18	21.99	21.77	21.55
✂	AC adaptor (UK)	C1F	PCGA-AC5E	29-47-20	67.46	68.99	68.58	68.16
✂	AC adaptor (UK)	C1XN	PCGA-AC5N	64-78-21	66.44	68.99	68.30	67.62
	Extension battery	C1F	PCGA-BP12	64-49-61	125.48	◗	128.99	127.70
	Extension battery	C1XN	PCGA-BP52	64-22-80	125.48	◗	128.99	127.70
✂	64MB memory	C1XN	PCGA-MM164	64-49-73	222.75	◗	228.99	226.70
	COMMON VAIO ACCESSORIES							
✂	Targus leather carry case (large)**	All VAIOs	PCGA-CLL1	64-95-46	106.02	◗	108.99	107.90
	Targus leather carry case (medium)***	All VAIOs	PCGA-CCM	64-36-86	85.70	88.99	88.10	87.22
	VAIO USB mouse	All VAIOs	PCGA-UMS1	31-34-86	27.88	28.95	28.66	28.37
	Com1 PCMCIA modem card	All VAIOs	PCGA-CMM2	64-12-58	185.91	◗	188.99	187.86
	Com1 PCMCIA Ethernet kit	All VAIOs	PCGA-PMC1	64-31-47	95.33	98.99	98.00	97.02
	Com1 ISDN cable	All VAIOs	PCGA-CDDN	62-66-97	95.33	98.99	98.00	97.02
	External CD-ROM drive	All VAIOs	PCGA-CD51	64-31-23	206.22	◗	211.99	209.87

* Does not work with the PCG-X9 or PCG-F309 ** Not 500 or C1 *** Not C1

OTHER ITEMS

FOR SONY NOTEBOOKS SEE PAGES 57–59

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NOTEBOOK PCs – WITH CD-ROM

COMPAQ

The outstanding **Armada V300** provides an extremely flexible, high performance portable computing solution in a superior, robust & lightweight design. The Armada V300 features Intel's Mobile Celeron 466 or 500MHz processor, an integrated advanced Common MultiBay compatible with other Armada families, Floppy Disk Drive and bright 12.1" TFT, 13" HPA or 14.1" TFT displays. V300 also offers an integrated Mini PCI modem, or optional integrated Mini PCI modem/ NIC combination, touchpad pointing device, 4MB video SDRAM, TV/Video Out and supports the Port Replicator solution common with the rest of the



Model	Armada V300
Processor	Intel Mobile Celeron (466 or 500MHz)
RAM	32 or 64MB Expandable to 512MB
Hard drive	6.4GB SMART
Floppy drive	3½" 1.44MB
CD-ROM drive	24x speed (optional DVD)
Modem	Integrated Mini PCI 56Kbps modem
Display	12.1" SVGA TFT, 13" SVGA HPA or 14.1" TFT/XGA
Ports	Port replicator docking solution, 4MB Video SDRAM with 2X AGP & TV out
Power supply	Universal AC adaptor
Battery	Lithium-ion
Operating system	Windows 95/98 or NT Dual Install
Dimensions (W × D × H)	316 × 254 × 41.8mm
Weight	2.7kg
Warranty	1 year worldwide parts and labour

COMPAQ FREE COLLECT AND RETURN
COURIER SERVICES (U.K. AND EIRE)

NO SUPPORT FOR DVD MPEG MOVIE PLAYBACK UNDER WNT

DESCRIPTION	PROCESSOR	RAM	DISPLAY	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Armada V300 Win 95/98	Cel 466MHz	32MB	13" HPA	64-32-31	975.58	➧	979.00	978.02	NEW
Armada V300 Win 95/98	Cel 466MHz	64MB	12.1" TFT	64-95-60	1122.19	➧	➧	1125.00	NEW
Armada V300 Win NT	Cel 466MHz	64MB	12.1" TFT	64-12-90	1176.06	➧	➧	1179.00	NEW
Armada V300 Win 95/98	Cel 500MHz	64MB	14.1" TFT	64-08-77	1375.56	➧	➧	1379.00	NEW
Armada V300 Win NT	Cel 500MHz	64MB	14.1" TFT	64-39-30	1415.46	➧	➧	1419.00	NEW

ACCESSORIES	PART NO.	CAT NO					
Value Carry Case (16" × 4.5" × 12")	CQV01	79-88-79	30.73	34.49	33.46	32.45	
128MB SDRAM Memory 100MHz	400313-B21	64-22-90	370.84	➧	376.99	374.73	
CarePaq Armada 3 years on-site Next Business Day	402415-022	25-98-33	299.29	➧	309.99	306.89	NEW

OTHER ITEMS

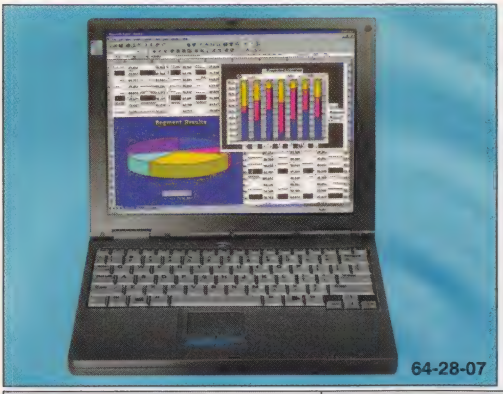
FOR COMPAQ ACCESSORIES SEE PAGES 65, 66
FOR COMPAQ DESKTOPS SEE PAGES 154–160

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW *item on this page*

NOTEBOOK PCs – WITH CD-ROM

COMPAQ



The uniquely designed **Armada M300** is the power packed ultra-portable for the new Millennium. With the M300 Compaq has set out to eliminate the compromises of today's ultra-portables – it still offers its users the largest display and hard disk storage in its class. It even provides a full set of system ports and a 95% full size keyboard despite its diminutive size and, when paired with the optional Mobile Expansion Unit, can transform into a fully functional ultra-lightweight mini-desktop replacement.

This 3-pound light, less-than-one-inch thin notebook provides all the performance users need without sacrificing features for mobility.



Model	Armada M300
Processor	Intel Pentium III (500MHz)
RAM	64MB SDRAM (expandable to 320MB)
Hard drive	6.4 or 12GB SMART
Floppy drive	External 3.5" 1.44MB
CD-ROM drive	24× (Optional)
DVD-ROM Card	Optional 2× DVD
Modem	Integrated 56K
Graphics controller	ATI Rage LT Pro 64-bit with 4MB SDRAM
Display	11.3" TFT
Keyboard	102 key with palm rest, hot keys and Euro key
Ports	USB, IrDA, enhanced parallel, serial, video-out, mic, audio-out, RJ-11
Power supply	External AC Adaptor
Battery	Lithium-ion
Op. sys.	Windows 95/98 or NT
Dimensions (W × D × H)	264 × 229 × 23mm
Weight	1.4kg
Warranty	1 year worldwide parts and labour

NO SUPPORT FOR DVD MPEG MOVIE PLAYBACK UNDER WNT

	DESCRIPTION	PROCESSOR	RAM	DISPLAY	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	Armada M300 W95/W98	PIII 500MHz	64MB	11.3" TFT	64-28-07	1515.21	➧	➧	1519.00
NEW	Armada M300 WNT	PIII 500MHz	64MB	11.3" TFT	64-37-13	1565.08	➧	➧	1569.00
NEW	Armada M300 W95/W98	PIII 500MHz	64MB	11.3" TFT	64-98-60	1595.01	➧	➧	1599.00
NEW	Armada M300 WNT	PIII 500MHz	64MB	11.3" TFT	64-54-68	1634.91	➧	➧	1639.00

	DESCRIPTION	PART NO.	CAT NO				
	Value Carry Case (16" × 4" × 12")	CQVO1	79-88-79	30.73	34.49	33.46	32.45
	128MB 50Ram Memory 100MHz	400313-B21	64-22-90	370.84	➧	376.99	374.73
NEW	Carepaq Armada 3 yrs on-site Next Business Day	402415-022	25-98-33	299.29	➧	309.99	306.89
	M300 Mobile Expansion Unit DVD	134098-B21	64-18-43	252.81	➧	257.00	255.46

OTHER ITEMS

FOR CARRY CASES SEE PAGES 100–107
FOR COMPAQ ACCESSORIES SEE PAGES 65, 66
FOR TECHNICAL SERVICES SEE PAGES 23–39

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NOTEBOOK PCs – WITH CD-ROM

COMPAQ

The **Compaq Armada M700** is a sleek durable notebook offering the optimum combination of performance and mobility.

To keep pace with the most demanding mobile business users, the **Compaq Armada M700** offers the highest performance and the very latest mobile computing technologies in one neat, strong magnesium chassis that's only 1.1" thick and weighs 4.9lbs.

A flexible multi-bay design offers the option of the standard floppy drive or CD-ROM/DVD.



64-12-65

ALL MODELS AVAILABLE IN NT VERSION

Model	Armada M700 6450/6650MHz	Armada M700 6500MHz
Processor	Intel Pentium III (450 or 650MHz)	Intel Pentium III (500MHz)
RAM	64MB SDRAM	
Hard drive	6.4GB	12GB
Floppy drive	3.5" 1.44MB	
CD-ROM drive	24x	N/A
DVD-ROM	Optional	4x
Modem	56K V90 Modem	
Display	14.1" XGA	
Keyboard	Full size keyboard with palm rest and integrated Euro symbol key	
Ports	Serial, Parallel, USB, infrared, video, audio, microphone, RJ-11	
Power supply	AC Adaptor	
Battery	Lithium-ion	
Operating system	Windows 95/98 or Windows NT	
Dimensions (W×D×H)	314×249×28mm	
Weight	2.2kg	
Warranty	3 years worldwide parts & labour	

COMPAQ FREE COLLECT AND RETURN COURIER SERVICES (U.K. AND EIRE)

NO SUPPORT FOR DVD MPEG MOVIE PLAYBACK UNDER WNT

DESCRIPTION	PROCESSOR	RAM	DISPLAY	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Armada M700 6450 W95/98	PIII 450MHz	64MB	14.1"TFT	64-12-65	1895.24	➧	➧	1899.99	
Armada M700 6450 WNT	PIII 450MHz	64MB	14.1"TFT	64-70-50	1940.13	➧	➧	1944.99	
Armada M700 6500 W95/98	PIII 500MHz	64MB	14.1"TFT	64-08-52	2176.72	➧	➧	2179.99	
Armada M700 6500 WNT	PIII 500MHz	64MB	14.1"TFT	64-27-87	2226.65	➧	➧	2229.99	
Armada M700 6650 W95/98	PIII 650MHz	64MB	14.1"TFT	64-19-67	2085.87	➧	➧	2089.00	NEW
Armada M700 6650 WNT	PIII 650MHz	64MB	14.1"TFT	64-32-49	2135.79	➧	➧	2139.00	NEW

DESCRIPTION	PART NO	CAT NO				
Value Carry Case (16"×4.5"×12")	CQV01	79-88-79	30.73	34.49	33.46	32.45	
64MB SDRAM Memory 100MHz	400312-B21	64-70-49	167.22	➧	169.99	168.97	
Carepaq Armada M700 3 years on-site Next Business Day	402416-022	25-98-35	154.48	➧	160.00	158.40	NEW

OTHER ITEMS

FOR COMPAQ ACCESSORIES SEE PAGES 65, 66
FOR TECHNICAL SERVICES SEE PAGES 23–39

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW *item on this page*

NOTEBOOK PCs – WITH CD/DVD-ROM

COMPAQ


64-39-24

The superb **Armada E500** provides a portable computing solution in a superior all-in-one convenient design without sacrificing expandability or performance.
Armada E500 features Intel's Mobile Pentium III 450 up to 650MHz processor, an integrated Common MultiBay, and an integrated Dualbay for floppy or optional third battery, a stunning 14.1" display, 6GB or 12GB SMART hard drive all in a 4cm thick, 6lbs casing.

The Armada E700 incorporates the highest available levels of mobile computing technologies. The dual-stacked Multibay design supports hot swapping of several Multibay options including three hard drives to give over 300GB of data storage – it will also support an optional 12-cell Lithium-Ion battery, CD-ROM, DVD and floppy drive.

NO SUPPORT FOR DVD MPEG MOVIE PLAYBACK UNDER WNT

Model	Armada E500	Armada E700
Processor	Intel PIII (450, 500, 600 or 650MHz)	Intel PIII (500MHz)
RAM	64MB SDRAM (Exp to 512MB)	128MB SDRAM (Exp 576MB)
Hard Drive	12 or 6.4GB	18GB
Floppy Drive	Integrated 3.5" 1.44MB	
CD-ROM Drive	24 Speed or PIII450, 500 or 600MHz 24×	—
DVD-ROM Drive	4× DVD on PIII650MHz Optional	4× DVD
Display	13.3" XGA or 14.1"XGA TFT	15" XGA TFT
Keyboard	Full size keyboard with integrated Euro symbol key	
Ports	Serial, Parallel, USB, infrared, video, audio, microphone, PS/2 keyboard/mouse	
Power supply	AC Adaptor	
Battery	Lithium-ion	
Operating system	Windows 95/98 or Windows NT	
Dimensions (W×D×H)	315×250×40mm	508×320×260mm
Weight	3kg	3.8kg
Warranty	12 months	36 months

COMPAQ FREE COLLECT AND RETURN COURIER SERVICES (U.K. AND EIRE)

NT VERSIONS ALSO AVAILABLE

	DESCRIPTION	PROCESSOR	RAM	DISPLAY	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	Armada E500 6.4GB W95/98	PIII500	64MB	13.3"TFT	64-39-24	1445.38	◗	◗	1449.00
	Armada E500 12GB W95/98	PIII450	64MB	14.1"TFT	64-12-82	1495.26	◗	◗	1499.00
NEW	Armada E500 12GB W95/98	PIII600	64MB	14.1"TFT	64-54-79	1704.73	◗	◗	1709.00
NEW	Armada E500 12GB W95/98	PIII650	64MB	14.1"TFT	64-19-68	1944.13	◗	◗	1949.00
	Armada E700 18GB W95/98	PIII500	128MB	15"TFT	64-32-92	119.40	◗	129.99	126.09
	ACCESSORIES		**PART NO.**		**CAT NO**				
	Value Carry Case (16"×4"×12")		CQV01		79-88-79	30.73	34.49	33.46	32.45
	128MB SDRAM Memory 100MHz		400313-B21		64-22-90	370.84	◗	376.99	374.73
NEW	CAREPAQ Armada 3 Yrs on-site Next Business Day		402415-022		25-98-33	299.29	◗	309.99	306.89

OTHER ITEMS

FOR PCMCIA GUIDE & INDEX SEE PAGES 108–110
FOR CARRY CASES SEE PAGES 100–107

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NOTEBOOK PC ACCESSORIES

COMPAQ

CARRY CASES FOR ALL ARMADAS

DESCRIPTION	DIMENSION W × D × H(")	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Workstation Case – Black Nylon	18" × 5" × 13"	80-67-47	44.45	49.89	48.39	46.94
Value Case – Black Nylon	16" × 4" × 12"	79-88-79	30.73	34.49	33.46	32.45

EXPANSION BASES

DESCRIPTION	FOR USE WITH	PART NO	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Armada Station II Carbon	7400/M700/7800/E700	112162-032	63-19-09	604.97	➧	615.00	611.31
M300 Mobile Expansion Unit DVD	M300	134098-B21	64-18-43	252.81	➧	257.00	255.46
Convenience Base Monitor Stand	E500/M300/M700/E700	122931-B25	64-54-19	44.97	45.99	45.71	45.44
Armada Station Tower Stand	E500/M300/M700/E700	123129-B25	64-95-28	38.08	38.95	38.72	38.48
Convenience Base EM	E500/M300/M700/E700	120971-031	64-82-29	240.99	➧	244.99	243.52
Armada Station EM	E500/M300/M700/E700	120266-031	64-78-03	455.44	➧	462.99	460.21
Armada Port Replicator EM	V300/E500/M300 M700/E700	382300-031	64-15-21	87.99	89.99	89.45	88.91
Convenience Base II (Pass Through)	1500/1700/3500	316238-031	62-20-62	117.05	➧	118.99	118.28
Convenience Base II (Ethernet)	1500/1700/3500	316239-031	62-56-74	182.96	➧	185.99	184.87

STORAGE

DESCRIPTION	FOR USE WITH	PART NO	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
12GB SMART Hard Drive	V300/E500	163531-B25	63-28-02	398.38	➧	404.99	402.56	
14GB Hard Drive	E700	354231-B25	63-12-96	542.00	➧	550.99	547.68	
25GB Hard Drive	E700	155759-B25	63-49-97	963.02	➧	978.99	973.12	
4x DVD-ROM Drive	All Aramdas	118103-B25	63-37-04	208.53	➧	211.99	210.72	
External Disk Drive	M300	157282-B21	63-39-28	66.97	68.49	68.08	67.67	
Multibay 10GB Smart HDD	All Armadas	128628-B25	64-77-65	379.69	➧	385.99	383.67	
Multibay 24x CD-ROM	E500/M300/M700	298452-B25	63-15-29	81.15	82.99	82.49	82.00	NEW
Multibay Superdisk LS120 Drive	All Armadas	296502-B25	17-53-84	98.96	➧	100.50	99.90	

OTHER ITEMS

FOR PCMCIA GUIDE & INDEX SEE PAGES 108–110
FOR CARRY CASES SEE PAGES 100–107

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

▼ NEW item on this page ▼

NOTEBOOK PC ACCESSORIES

COMPAQ

	DESCRIPTION	FOR USE WITH ARMADA	PART NO	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	32MB SDRAM (100MHz)	V300/E500/M700/E700	400311-B21	64-17-52	103.28	➧	104.99	104.36
	64MB SDRAM (100MHz)	V300/E500/M700/E700	400312-B21	64-70-49	167.22	➧	169.99	168.97
	128MB SDRAM (100MHz)	V300/E500/M300/M700/E700	400313-B21	64-22-90	370.84	➧	376.99	374.73
	256MB SDRAM (100MHz)	V300/E500/E700	161554-B21	63-31-94	749.56	➧	761.99	757.42
	Dual MultiBay Battery 12 Cell	E700	213511-B21	85-08-38	103.28	➧	104.99	104.36
	Li-Ion Battery Pack 12 Cell	E700	109094-B21	85-38-95	94.84	96.99	96.41	95.83
	Battery 8 Cell	E700	109095-B21	85-27-72	75.28	76.99	76.53	76.07
	Battery 8 Cell	M700	134111-B21	85-36-81	90.92	92.99	92.43	91.88
	Battery 6 Cell	M700	134110-B21	85-98-33	75.28	76.99	76.53	76.07
	High Capacity Battery	M300	134099-B21	85-53-53	93.86	95.99	95.41	94.84
	External 4 Cell Battery	M300	134096-B21	85-76-56	91.75	95.99	95.03	94.08
	Battery 9 Cell	V300/E500	146252-B25	85-17-59	106.23	➧	107.99	107.34
	Universal Battery Charger	V300/E500/M300/M700/E700	135555-031	85-53-45	37.65	37.99	37.90	37.80
	AC Power Supply	V300/E500/M300/M700/E700	120765-031	63-08-76	37.64	38.50	38.27	38.04
	MultiBay Battery 12mm	V300/E500/M300/M700/E700	387937-B25	85-94-76	143.61	➧	145.99	145.11
	Car Power Adaptor	V300/E500/M300/M700/E700	401043-B25	85-17-18	37.64	38.50	38.27	38.04
	Aircraft Power Adaptor	V300/E500/M300/M700/E700	386504-B21	85-70-22	33.20	33.50	33.42	33.33
	AC Power Cable	All Armadas	217932-032	53-76-73	8.59	8.79	8.74	8.68
	Enhanced Space Saver Keyboard (Carbon)	V300 E500	118003-038	63-19-08	26.76	27.00	26.93	26.87
	External Infrared Transceiver	M700	220687-001	97-85-03	59.45	59.99	59.84	59.69
	Margi MPEG 2 'DVD to Go' Card (W95/W98 only)	All Armadas	202861-B21	36-98-61	212.47	➧	215.99	214.69
	Multibay Adaptor CD/Floppy	All Armadas	166234-B25	63-23-24	10.75	10.99	10.92	10.86
NEW	Smart Card Reader	All Armadas	135646-B25	63-54-56	129.15	➧	129.99	129.67
NEW	11 MBPS Wireless LAN WL100 PC Card	All Armadas	146927-B21	64-39-34	113.11	➧	114.99	114.30
NEW	11 MBPS Wireless LAN WL400 Hardware Access Point	All Armadas	158603-031	64-28-11	577.41	➧	586.99	583.47
NEW	11 MBPS Wireless LAN WL300 PC Card	All Armadas	157209-B21	64-37-17	66.48	67.99	67.58	67.18

OTHER ITEMS

FOR COMPAQ NOTEBOOK PCs SEE PAGES 61–64
FOR PCMCIA GUIDE SEE PAGES 108–110
FOR MEMORY UPGRADES SEE PAGE 190

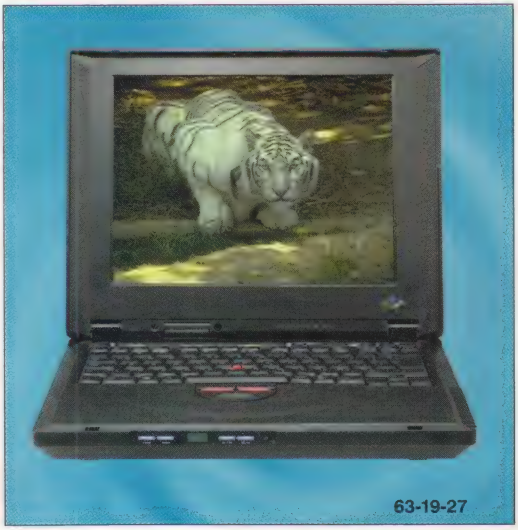
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NOTEBOOK PCs

IBM™

Just because you need maximum portability doesn't mean you have to sacrifice usability. The **ThinkPad 240** mini-notebook from **IBM** is designed to be easy-to-use, ultralight and superthin with a keyboard 95% the size of current ThinkPads. Integrated connectivity and all the most commonly used ports are already onboard, saving the need to carry countless accessories.

For those looking for the ultraportable notebook PC without wishing to compromise on features and upgradeability. IBM have created the **ThinkPad 570**. The ThinkPad 570 is one of the world's thinnest and lightest notebook PC with a high level of specification. They carry the latest Intel Mobile Pentium III processors, with 64MB of RAM and hard drives of 12GB, together with clear 13.3" TFT displays.



63-19-27

NO SUPPORT FOT DVD MPEG MOVIE PLAYBACK UNDER WIN NT

Model	ThinkPad 240	ThinkPad 570
Processor	Intel Celeron (400MHz)	Intel PIII (500MHz)
RAM	64MB SDRAM (expandable to 192MB)	
Hard Drive	12GB	
Floppy Drive	External 3.5" 1.44MB	
CD-ROM Drive	Optional	
DVD-ROM Drive	Optional	
Modem	Integrated 56Kbps V.90	
Graphics Controller	128-bit PCI graphics with 2MB	
Display	10.4" TFT	13.3" TFT
Keyboard	95% full size	84 full size keys with TrackPoint
Ports	Parallel, serial, USB, PS/2 keyboard/mouse, video I/O	
Power supply	Autosensing 100-240V AC Adaptor	
Battery	Lithium-ion	
Operating System	Windows 98	Windows 98/2000
Dimensions (W × D × H)	260 × 202 × 26.6mm	240 × 300 × 27mm
Weight	1.35kg	1.83kg
Warranty	12 months limited return-to-base	3 years return to base

FOR IBM ACCESSORIES SEE PAGE 71

DESCRIPTION	PROCESSOR	RAM	DISPLAY	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
ThinkPad 240 W98	CEL 400	64MB	10.4" TFT	63-19-27	1235.91	➧	➧	1239.00	
ThinkPad 570 (6AG) W98	PIII 500	64MB	10.4" TFT	64-95-62	2315.52	➧	➧	2319.00	NEW
ThinkPad 570 (6BG) W2000	PIII 500	64MB	10.4" TFT	64-23-43	2371.44	➧	➧	2375.00	NEW

OTHER ITEMS

FOR CARRY CASES SEE PAGES 100–107
FOR THINKPAD ACCESSORIES SEE PAGE 71

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW *item on this page*

NOTEBOOK PCs – WITH CD-ROM

IBM™



The IBM **ThinkPad A Series** notebooks can enhance and simplify your mobile computing experience. It's the all-in-one desktop replacement that offers high-performance graphics capabilities plus one-click access to the Internet and can support wireless connectivity options. ThinkPad A Series options are also interchangeable with the new ThinkPad Series notebooks so you can swap Ultrabay 2000 options, memory and adaptors.

SEE PAGE 71 FOR IBM NOTEBOOK ACCESSORIES

NO SUPPORT FOR DVD MOVIE PLAYBACK UNDER WIN NT

Model	A20m	A20p
Processor	Intel Cel (500MHz) or Pentium III (500 or 700MHz)	Intel PIII (700MHz)
RAM	64MB SDRAM	128MB
Hard drive	6 or 12GB	18GB
Floppy drive	Fixed internal 3.5" 1.44MB	
CD-ROM drive	10-24 speed	
Modem	56Kbps V.90	
Display	12.1, 14.1" or 15.0"TFT	
Ports	Parallel, serial, PS/2 keyboard/mouse, infra-red, monitor, docking station	
Power supply	Autosensing 100-240V AC adaptor	
Battery	Lithium-ion	
Operating system	Windows 98 or 2000	Windows 2000
Dimensions (W×D×H)	315×255×45.7mm	
Weight	2.7kg	3.2kg
Warranty	12 months International	

Please see www.action.com for more products

	DESCRIPTION	PROCESSOR	HDD	DISPLAY	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	ThinkPad A20m	Cel 500MHz	6GB	12.1"TFT	64-39-48	1166.08	➧	➧	1169.00
NEW	ThinkPad A20m	PIII 500MHz	6GB	12.1"TFT	64-28-24	1345.63	➧	➧	1349.00
NEW	ThinkPad A20m	Cel 500MHz	12GB	15.0"TFT	64-98-70	1620.94	➧	➧	1625.00
NEW	ThinkPad A20m	PIII 700MHz	12GB	14.1"TFT	64-78-74	2015.97	➧	➧	2019.00
NEW	ThinkPad A20p	PIII 700MHz	18GB	15.0"TFT	64-78-75	2545.18	➧	➧	2549.00
NEW	ThinkPad A20p	PIII 700MHz	18GB	15.0"TFT	64-82-41	2595.10	➧	➧	2599.00

OTHER ITEMS

FOR CARRY CASES SEE PAGES 100–107
FOR IBM ACCESSORIES SEE PAGE 71

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
»» Save £££'s!
»» Check live stock
»» Track order status

NOTEBOOK PCs

IBM™

The new **IBM ThinkPad T Series** notebook is thin and light featuring a cover that's strengthened by Titanium Composite, one-click access to the Internet, support for wireless connectivity options and the new UltraPort connector. The IBM ThinkPad T Series notebooks can enhance and simplify your mobile computing experience. It's thin, light and travels well. It offers one-button access to the Internet... so you can work smarter. Also the new UltraPort connector allows you to attach the digital UltraPort Camera option. Plus, the T Series options are interchangeable with the new A Series ThinkPad notebooks... so you can swap Ultrabay 2000 devices, memory and adaptors. A Titanium Composite in the top cover makes the ThinkPad T Series tough to beat.



64-15-33

NO SUPPORT FOR DVD MPEG MOVIE PLAYBACK UNDER WIN NT

SEE PAGE 71 FOR IBM ACCESSORIES

Model	'T' Series
Processor	PIII (650 or 700MHz)
RAM	128MB
Hard Drive	6 or 12GB
Floppy Drive	3½" 1.44MB
CD-ROM Drive	24x–10x
Modem	Internal 56Kbps V.90
Display	13.3" or 14.1" TFT
Keyboard	84 full size keys with TrackPoint
Ports	Parallel, serial, USB, PS/2 keyboard/mouse, video I/O
Docking Options	Enhanced Port Replicator with CardBus & Ethernet; Port Replicator
Battery	Lithium-ion
Operating System	Windows 98 or 2000
Dimensions (W × D × H)	241 × 297.7 × 26.4mm
Weight	2.6kg
Warranty	Three years return-to-base.

FOR TECHNICAL SERVICES SEE PAGES 23–39

DESCRIPTION	PROCESSOR	RAM	HDD	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
ThinkPad T20 W98	PIII 650	128MB	6GB	64-15-33	2131.80	➧	➧	2135.00	NEW
ThinkPad T20 W98	PIII 700	128MB	12GB	64-62-64	2526.21	➧	➧	2530.00	NEW
ThinkPad T20 W2K	PIII 650	128MB	6GB	64-34-77	2196.70	➧	➧	2200.00	NEW
ThinkPad T20 W2K	PIII 700	128MB	12GB	64-91-79	2596.09	➧	➧	2599.99	NEW

OTHER ITEMS

FOR CARRY CASES SEE PAGES 100–107
FOR IBM OPTIONS SEE PAGE 71
FOR IBM DESKTOPS SEE PAGE 146

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

NOTEBOOK PCs – WITH CD/DVD-ROM

IBM™



64-54-28

With the **ThinkPad 600, IBM** has assembled the perfect balance of mobile computing power and portability. The ThinkPad 600 delivers award-winning ThinkPad technology, vibrant mobile multimedia, easy connectivity and UltraslimBay flexibility, as well as simple, super-portable convenience.

At less than 2.6kg and 36mm-thin, the graceful ThinkPad 600 series slips easily under your arm or in your briefcase, ready to work when you are. The ThinkPad 600 features the Intel Mobile Pentium II processors up to 650MHz, large active matrix (TFT) displays, 12GB hard disk drive, full docking capability and an UltraslimBay that accommodates a range of options including a diskette, SuperDisk, DVD or CD-ROM drive and more.

FOR TECHNICAL SERVICES SEE PAGES 23–39

Model	ThinkPad 600
Processor	Pentium III (500 or 650MHz)
RAM	64MB
Hard drive	12.0GB
Floppy drive	3.5″ 1.44MB
CD-ROM drive	24× on CD models
DVD-ROM drive	6× (only on DVD models)
Display	13.3″ XGA TFT
Ports	Parallel, serial, USB, PS/2 keyboard/mouse, infra-red, audio
Keyboard	85 keys with TrackPoint III
Power supply	Autosensing 100-240V AC adaptor
Battery	Lithium-ion
Operating system	Windows 98, NT or 2000
Dimensions (W×D×H)	239×300×36mm
Weight	2.6kg
Warranty	Three year International

NO SUPPORT FOR DVD MPEG MOVIE PLAYBACK UNDER WIN NT

DESCRIPTION	PROCESSOR	HDD	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
ThinkPad 600 (8EG) WNT4, CD	PIII500MHz	12.0GB	64-54-28	2295.55	➧	➧	2299.00
ThinkPad 600 (4EG) W98SE, CD	PIII500MHz	12.0GB	64-98-49	1894.26	➧	➧	1899.00
ThinkPad 600 (9EG) WNT4, DVD	PIII500MHz	12.0GB	64-37-00	2475.28	➧	➧	2479.00
ThinkPad 600 (5EG) W98SE, DVD	PIII500MHz	12.0GB	64-27-94	2395.40	➧	➧	2399.00
ThinkPad 600 (8PG) W2000, CD	PIII500MHz	12.0GB	64-39-17	2355.46	➧	➧	2359.00
ThinkPad 600 (9FG) W2000, CD	PIII650MHz	12.0GB	64-08-64	2744.88	➧	➧	2749.00
ThinkPad 600 (5FG) W98SE, DVD	PIII650MHz	12.0GB	64-49-76	2674.98	➧	➧	2679.00
Notepac Plus Carry Case	—	—	29-32-33	34.40	35.99	35.63	35.27

OTHER ITEMS

FOR IBM ACCESSORIES SEE PAGE 71
FOR PCMCIA GUIDE & INDEX SEE PAGES 108–110
FOR CARRY CASES SEE PAGES 100–107

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NOTEBOOK PC ACCESSORIES

IBM™

DESCRIPTION	IBM PART NO.	FOR USE WITH	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
32MB SDRAM SO-DIMM	76H0294	240/390/570/600/E/700	89-55-52	45.87	47.99	47.51	47.03	✂
64MB SDRAM SO-DIMM	20L0241	240/390/570/600/E/700	48-86-15	74.54	77.99	77.21	76.44	✂
128MB SDRAM SO-DIMM	01K1150	240/390/570/600E/770	13-88-79	152.53	➧	157.99	156.41	✂
10.0GB Hard disk drive	36L9293	570/600/E	52-95-21	646.86	➧	669.99	663.29	✂
24-10x Internal IDE CD-ROM Drive	05K9122	600/E	64-08-53	91.48	94.99	94.04	93.10	✂
(LS120) UltraslimBay Drive	20L1929	600/E	26-27-07	145.91	➧	149.99	148.49	✂
Li-Ion Battery Pack	02K6580	240	64-27-83	125.50	➧	129.99	128.69	
Li-Ion Battery Pack	02K6546	570	63-18-82	145.91	➧	149.99	148.49	
Li-Ion Battery Pack	12J2464	600/E	25-66-34	148.82	➧	152.99	151.46	
Li-Ion System Battery	02K6649	T Series	64-62-65	131.32	➧	135.00	133.65	NEW
Li-Ion System Battery	02K6640	A Series	64-34-78	114.29	➧	117.49	116.32	NEW
UltraslimBay Battery	02K6504	600/E	53-76-69	163.16	➧	168.99	167.30	
56W DC Power Adaptor	02K3381	240/390/E/600/E/570/770	38-27-87	79.92	82.99	82.16	81.34	✂
Super slim 56W Slimline Adaptor	02K6586	240/390/E/570/600/E/770	52-97-31	45.87	47.99	47.51	47.03	✂
570 UltraBase	05K5840	570	64-17-85	90.79	94.99	94.04	93.10	✂
SelectaBase 600	12J2467	600/E	25-36-75	128.40	➧	132.99	131.66	✂
SelectaDock III	TOSD3UK	600/E/770	67-69-39	476.65	➧	489.99	485.09	
PC Card Enabler	83H6741	600/E/770	41-32-57	134.19	➧	138.99	137.60	
Port Replicator	46H4218	240/390/E	99-34-30	139.02	➧	143.99	142.55	✂
Port Replicator w/EtherJet Feature	05K4872	390/E	26-26-73	239.29	➧	245.99	243.53	
ThinkPad Mobile mouse	28L3668	240/390/E/570/600/E/770	64-18-06	34.40	35.99	35.63	35.27	
Notepack Plus Carry Case	01K1257	240/390/E/600/E/570/770	29-32-33	34.40	35.99	35.63	35.27	✂
72W Adaptor	02K6704	A+T Series	64-91-80	38.03	39.49	39.10	38.70	NEW
6GB Hard Drive	05K9237	A+T Series	64-52-03	200.09	➧	205.69	203.63	NEW

Please see www.action.com for more products

OTHER ITEMS

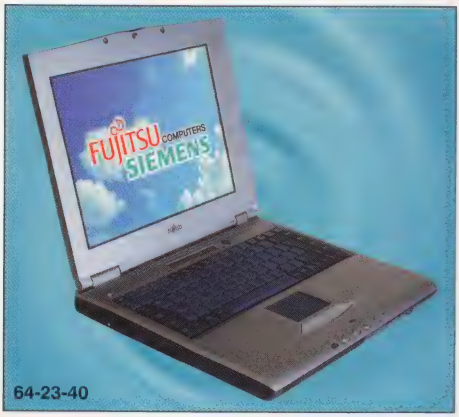
FOR IBM NOTEBOOK PCs SEE PAGES 67–70
FOR IBM MONITORS SEE PAGE 324

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▸▸ Save £££'s!
▸▸ Check live stock
▸▸ Track order status

NEW item on this page

NOTEBOOK PCs – WITH CD-ROM

FUJITSU COMPUTERS SIEMENS



64-23-40

The **LifeBook B-2131** is a full function, powerful and reliable notebook PC, weighing only 1.4kg. This latest member of the Fujitsu LifeBook B-series nicknamed 'Biblo' offers Intel's Mobile Celeron power, Windows 98 SE and a touch panel display for optimal cursor control. Also, for amazing connection, the B-2131 comes standard with an integrated V90 modem and LAN combo-adaptor.

Despite the attractive price tag, the **LifeBook C-Series** can still boast excellent performance. With its fully integrated, all-in-one design, the C-series is ideal for anyone who values reliability and simplicity. And with its silver cover, it will add a distinctive sense of style to the world of mobile computing.

Power hungry users can choose between Intel Mobile Celeron or Pentium III processors, there are powerful multimedia features and Internet surfers will love the integrated 56K modem.

Model	LifeBook B-2131	LifeBook C-Series
Processor	Intel Celeron (400MHz)	Intel Celeron (450MHz) or Pentium III (500MHz)
RAM	64MB SDRAM	32 or 64MB
Hard drive	6.0GB	4.8 or 6GB
Floppy drive	3.5" 1.44MB	
CD-ROM drive	Optional 20x (54-15-14)	Integrated 24x CD-ROM
Modem	Integrated V90 56K modem	
Display	10.4" SVGA TFT	12.1"/14.1" SVGA/XGA TFT
Keyboard	Full size keys with windows keys and Euro symbol, Quick Touch application buttons	
Ports	Parallel, serial, USB, PS/2 keyboard, IrDA, mic	
Power supply	External Mini AC Adaptor	
Battery	Lithium-Ion	NimH
Operating system	Windows 98	
Dimensions (W × D × H)	250 × 197 × 28.5mm	308 × 273.5 × 39.5mm
Weight	1.4kg	3.0kg
Warranty	12 months	

NO SUPPORT FOR DVD MPEG MOVIE PLAYBACK UNDER WIN NT

ALSO AVAILABLE IN NT VERSIONS

	DESCRIPTION	PROCESSOR	RAM	DISPLAY	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	LifeBook B-2131 W98	Cel 400MHz	64MB	10.4" TFT	64-19-75	1295.76	➧	➧	1299.00
NEW	LifeBook C4135 W98	Cel 450MHz	64MB	12.1" TFT	64-23-40	946.23	➧	949.55	948.60
NEW	LifeBook C-4155 W98	Cel 450MHz	32MB	12.1" TFT	64-28-23	946.23	➧	949.55	948.60
NEW	LifeBook C6135 W98	Cel 450MHz	64MB	14.1" TFT	64-19-58	1180.05	➧	➧	1183.00
NEW	LifeBook C6325 W98	PIII 500MHz	64MB	14.1" TFT	64-39-47	1295.76	➧	➧	1299.00
	Black Koskin Carry Case	–	–	–	26-14-54	60.21	62.99	62.36	61.74

OTHER ITEMS

FOR CARRY CASES SEE PAGES 100–107
FOR PC CARD GUIDE SEE PAGES 108–110
FOR FUJITSU ACCESSORIES SEE PAGE 79

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NOTEBOOK PCs – WITH CD-ROM

FUJITSU COMPUTERS SIEMENS

The **Fujitsu Siemen's** engineers designed the **LifeBook E-series** with the corporate user in mind. On top of high performance technology and desktop quality manageability, they added the flexibility of a module bay and the protection of the security panel and a removable hard disk.

Please see www.action.com for more products

No support for DVD MPEG movie playback under WinNT

FOR TECHNICAL SERVICES SEE PAGES 23–39



64-19-32

Model	LifeBook e-series
Processor	Intel Cel (450MHz) or Intel Pentium III (500MHz or 600MHz)
RAM	64 or 128MB
Hard drive	6GB or 12GB
Floppy drive	3.5" 1.44MB
CD-ROM drive	Integrated 24x CD-ROM
Modem	56K V.90 International Modem
Display	14.1" XGA TFT
Keyboard	Full size keyboard with windows keys & Euro symbol, touch point pointing device
Ports	Parallel, serial, USB, PS/2 keyboard/mouse, IrDA, mic, headphones
Power supply	External mini AC adaptor
Battery	Lithium-ion
Operating system	W98/WNT/W2000
Dimensions (W × D × H)	308 × 260 × 37mm
Weight	2.7kg
Warranty	12 months or (E-6150 – 3 yrs)

SEE PAGE 79 FOR FUJITSU/SIEMENS ACCESSORIES

DESCRIPTION	PROCESSOR	RAM	HDD	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
LifeBook E-6150 W98	Cel 450MHz	64MB	6.0GB	64-19-32	1345.63	➧	➧	1349.00	NEW
LifeBook E-6530 W98	PIII 500MHz	64MB	12.0GB	64-95-69	1604.98	➧	➧	1609.00	NEW
LifeBook E-6530 WNT	PIII 500MHz	64MB	12.0GB	64-98-69	1660.84	➧	➧	1665.00	NEW
LifeBook E-6540 W98	PIII 600MHz	64MB	12.0GB	64-78-70	1864.33	➧	➧	1869.00	NEW
LifeBook E-6540 W98	PIII 600MHz	128MB	12.0GB	64-78-71	1914.21	➧	➧	1919.00	NEW
LifeBook E-6540 WNT	PIII 600MHz	128MB	12.0GB	64-32-48	1914.21	➧	➧	1919.00	NEW
LifeBook E-6540 W2000	PIII 600MHz	128MB	12.0GB	64-82-40	1980.04	➧	➧	1985.00	NEW

OTHER ITEMS

FOR FUJITSU/SIEMENS NOTEBOOK ACCESSORIES SEE PAGE 79
FOR PCMCIA GUIDE & INDEX SEE PAGES 108–110

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW *item on this page*

NOTEBOOK PCs – WITH CD-ROM

FUJITSU COMPUTERS SIEMENS



The **LifeBook S-series,** the trendsetter in the ultraportable market. Although the new S series is not much larger than a folded newspaper and weighs only 1.7kg, Fujitsu Siemens has made no compromises in comfort or performance. Thanks to built-in LAN and modem, desktop quality manageability and Intel's latest Pentium III processor, this new notebook is the solution for corporate mobility.

Please see www.action.com for more products

NO SUPPORT FOR DVD MPEG MOVIE PLAYBACK UNDER WIN NT

Model	LifeBook S-series
Processor	Intel Pentium III (400MHz)
RAM	64MB or 128MB
Hard drive	6GB
Floppy drive	Fixed 3½" 1.44MB
CD-ROM drive	Integrated 24 × CD-ROM
DVD-ROM drive	Optional 6 × DVD-ROM
Modem	56K V.90 International Modem
Display	12.1" SVGA TFT
Keyboard	Full size keyboard with Windows keys and Euro symbol, TouchPoint pointing device
Ports	Parallel, serial, USB, VGA, PS/2 keyboard/mouse, IrDA, mic, headphones
Power supply	External Mini AC Adaptor
Battery	Lithium-ion
Operating system	Windows 98 or NT
Dimensions (W × D × H)	288 × 225 × 24.5mm
Weight	1.7kg
Warranty	12 months

FOR TECHNICAL SERVICES SEE PAGES 23–39

ALSO AVAILABLE IN NT VERSIONS

	DESCRIPTION	PROCESSOR	RAM	HDD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	LifeBook S-4510 Win 98*	PIII 400MHz	64MB	6GB	64-15-32	1595.01	➧	➧	1599.00
NEW	LifeBook S-4510 Win NT	PIII 400MHz	64MB	6GB	64-62-63	1660.84	➧	➧	1665.00
NEW	LifeBook S-4150 Win 98	PIII 400MHz	128MB	6GB	64-32-37	1774.56	➧	➧	1779.00
NEW	LifeBook S-4510 Win NT	PIII 400MHz	128MB	6GB	64-34-76	1830.42	➧	➧	1835.00

*This model available with FREE Iomega Clik! PC Card Drive and Modular USB CCD Camera.

OTHER ITEMS

FOR FUJITSU ACCESSORIES SEE PAGE 79
FOR FUJITSU DESKTOPS SEE PAGES 148–150

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NOTEBOOK PCs – WITH CD-ROM

SHARP

The **PC-A280M** and **PCA-X10** are the latest Ultra Lite Ultraportable from Sharp. They do not sacrifice either performance or ergonomics with their Ultra Lite design. Equipped with a 366 or 500MHz Mobile Pentium II or III processors and 64 or 128MB they deliver excellent performance, with a huge 8.1 or 12GB HDD for all your storage needs. The PC also meets the needs of today's connected enterprise with a built-in 10/100 Base-T Ethernet LAN.

As you would expect from Sharp, the world leader in LCD technology, the PC-A280M and PCA-X10 are equipped with an 11.3" SVGA or 14.1" TFT, giving an extremely bright, crisp and stable image even in bright ambient light. Encased in magnesium alloy, chosen for its strength and weight, in addition to enhancing its sleek design.



64-27-84

FOR TECHNICAL SERVICES SEE PAGES 23–39

Model	PC-A280/M/MB	PCA-X10
Processor	Intel Pentium II (366MHz)	Intel Pentium III (500MHz)
RAM	64MB	
Hard drive	8.1GB	12GB
Floppy drive	3.5" 1.44MB	
CD-ROM drive	12-24× (on PC-A280MB only)	24×
Modem	56K V90 Modem	
Display	11.3" SVGA TFT (AGLR)	14.1"XGA
Ports	IrDA, PCMCIA Type II, 2×USB, CRT, 10/100 Base-T Ethernet adaptor	Stereo out or Optical Digital out, Microphone in, 2×USB, 2×Mini-USB
Power supply	Universal AC adaptor (100-240V AC 50/60)	
Battery	Lithium-Ion	
Operating system	Windows 98	
Dimensions (W×D×H)	263×212×23/31mm	268×223×28mm
Weight	1.4kg	2.2kg
Warranty	3 Year Pan European 1 year international UK courier Collect	

DESCRIPTION	PROCESSOR	RAM	DISPLAY	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Sharp PC-A280M	PII 366MHz	128MB	11.3"TFT	64-27-84	1444.37	▶	▶	1447.99	
Sharp PC-A280MB	PII 366MHz	128MB+CD	11.3"TFT	64-36-89	1584.02	▶	▶	1587.99	
Sharp PCA-X10	PIII 500MHz	64MB	12.1"TFT	63-70-86	CHECK ONLINE	▶	▶	FREE Call	NEW
ACCESSORIES									
Sharp Add-on-battery (6 hours)				64-62-54	150.77	▶	154.99	153.44	
Sharp External 12-24×CD-ROM				64-31-46	194.54	▶	199.99	197.99	

OTHER ITEMS

FOR CARRY CASES SEE PAGES 100–107

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW *item on this page*

NOTEBOOK PCs – WITH CD-ROM

Acer



The **TravelMate 505 Series** offers a new level of price performance using the latest clean processor. It offers great mobility with its well-crafted integrated design including a built-in HDD, FDD and CD-Rom.

The **TravelMate 340 Series** is a unique combination of thinness, lightness, lightweight, value and tip performance. Its 4-pound and sub-inch profile combined with an Intel Pentium III 500MHz makes the TravelMate 340 a perfect companion for no-compromise, on-the-go computing. This series supports 3D graphics and delivers graphics more than 3 hours battery life.

SEE PAGE 79 FOR ACER ACCESSORIES

NO SUPPORT FOR DVD MPEG MOVIE PLAYBACK UNDER WIN NT

Model	TravelMate 505 Series	TravelMate 340 Series
Processor	Intel Celeron (500MHz)	Intel Pentium III (500MHz)
RAM	64MB (exp. to 256MB)	
Hard Drive	4.8GB	9GB
Floppy Drive	Modular 3.5" 1.44MB	External 3.5" 1.44MB
CD-ROM Drive	Internal 24x	External 24x CD-ROM
Modem	Integrated 56K	Integrated 56K V.90
Display	12.1" TFT	
Ports	Parallel/Serial Port, PS/2 keyboard/mouse/keypad, SVGA, 2xUSB, Infra-red, audio, (1xPC Card Type II 1xType III – only on the TravelMate 508)	
Power Supply	100-240v auto-sensing 60W fast-charging AC Adaptor	60W AC Adaptor
Battery	NiMH (3 hours)	Li-ion (3 hours)
Operating System	Windows 98SE	
Dimensions (W×D×H)	308×257×44.5mm	389×219×24mm
Weight	2.85g	1.8kg
Warranty	One Year return to base warranty/One Year International Traveller's Warranty	

FOR TECHNICAL SERVICES SEE PAGES 23–39

	DESCRIPTION	PROCESSOR	RAM	HDD	OPS. SYS.	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	TravelMate 508T	Cel500MHz	64MB	4.8GB	12.1"TFT	64-19-83	876.87	➧	879.95	879.07
✂	TravelMate 342T	PIII500MHz	64MB	9GB	12.1"TFT	63-49-90	1345.63	➧	➧	1349.00

OTHER ITEMS

FOR ACER ACCESSORIES SEE PAGE 79
FOR TECHNICAL SERVICES SEE PAGES 23–39

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▸▸Save £££'s!
▸▸Check live stock
▸▸Track order status

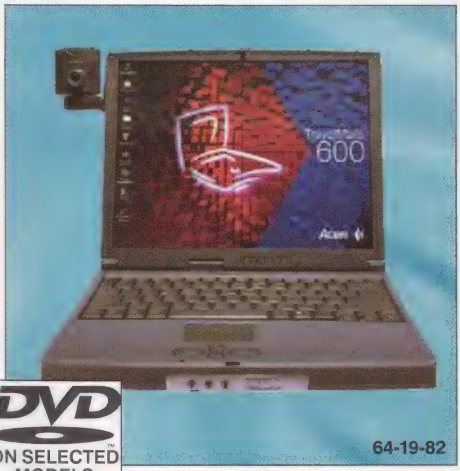
NOTEBOOK PCs – WITH CD-ROM

Acer

The **TravelMate 600 Series** is the newest addition to the award-winning TravelMate series, the TravelMate 600 Series is designed to meet the needs of the professional business user who needs leading performance and the latest features for a range of computing tasks. Mobility is a major concern as the typical user makes frequent business trips.

The **TravelMate 730** series of notebooks offer the new class of Pentium III mobile processors with speeds of up to 700MHz. It also delivers outstanding battery life of up to 4 hours in independent bench tests.

The TravelMate 730 features a convenient all-in-one modular design, incorporating 24x CD-ROM, DVD drive or LS120 drive for the hot swappable modular bay. These notebooks combine power and feature rich performance, and are an exceptionally versatile desktop replacement solution.



64-19-82

DVD ON SELECTED MODELS

NO SUPPORT FOR DVD MPEG MOVIE PLAYBACK UNDER WIN NT

Model	TravelMate 600	TravelMate 730
Processor	PIII (600MHz)	Intel Pentium III (500, 600 or 700MHz)
RAM	64MB (exp to 512MB)	64 or 128MB SDRAM (exp. to 256MB)
Hard drive	12GB	6.9 or 12GB
Floppy drive	Internal 3.5" 1.44MB	
CD-ROM drive	4×/4×/20× CDRW	Internal 24×CD-ROM
DVD-ROM drive	—	Optional Internal 6×DVD-ROM (Std. TLV)
Modem	Integrated 56K V.90	
Display	13.3" TFT	13.3", 14.1" or 15" TFT
Keyboard	84 key, function keys, Integrated touch pad, Internet Scroll key	
Ports	Parallel/serial port, PS/2 keyboard/mouse/keypad, SVGA, 2×USB, infra-red, audio, PC Card Type II	
Power supply	100-24v auto-sensing 60w fast-charging AC adaptor	
Battery	Lithium-ion (4 hours)	
Operating system	Windows 98 SE	
Dimensions (W×D×H)	298×238×33mm	323×271×36/46mm
Weight	2.15kg	3.2kg
Warranty	One Year Collect and Return warranty/One Year International reveller's Warranty	3 Year Collect and Return/1 Year International Traveller's Warranty

SEE PAGE 79 FOR ACER ACCESSORIES

DESCRIPTION	PROCESSOR	HDD	RAM	DISPLAY	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
TravelMate 732TE	PIII 500MHz	6GB	64MB	13.3"TFT	64-32-52	1576.04	➧	➧	1579.99	NEW
TravelMate 732TXV	PIII 500MHz	6GB	64MB	14.1"TFT	64-32-88	1775.54	➧	➧	1779.99	NEW
TravelMate 734TL	PIII 600MHz	12GB	64MB	15"TFT	64-95-89	1815.44	➧	➧	1819.99	NEW
TravelMate 737TLV	PIII 700MHz	18GB	128MB	15"TFT	64-19-94	2446.32	➧	➧	2449.99	NEW
TravelMate 600TER	PIII 600MHz	12GB	64MB	13.3"TFT	64-19-82	1695.74	➧	➧	1699.99	NEW

OTHER ITEMS

FOR CARRY CASES SEE PAGES 100–107
FOR ACER NOTEBOOK ACCESSORIES SEE PAGE 79

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW item on this page

NOTEBOOK PCs – WITH CD-ROM

SAMSUNG ELECTRONICS

The **Samsung GT7000** Series delivers state of the art performance using the world's fastest Intel mobile processors up to PIII650MHz with the option of our new 15.1" SXGA +TFT screen, resolution 1400 × 1050, 8MB video memory, powerful processors and some of the best components including a built-in 56Kbps fax/modem.

The **Samsung VM7000** Series offers an entry level notebook computer of exceptional value for money with all the features, performance and quality. These all-in-one notebooks offer significant space-saving and truly flexible computing both in and out of the office.



64-32-81

SEE PAGE 79 FOR SAMSUNG ACCESSORIES

Model	VM450CT/VM7500CT	VM7500CXT	GT7500XT/GT7600XT	GT7500XV
Processor	Cel (450MHz)	Cel (500MHz)	PIII (500 or 600MHz)	PIII (650MHz)
RAM	64MB			128MB
Hard drive	6GB			12GB
Floppy drive	Fixed 3.5" 1.44MB			
CD-ROM drive	24 × CD		24 × CD or 6 × DVD	6 × DVD
Modem	56Kbps			
Display	12.1" TFT	14.1" TFT	12.1" TFT	14.1" TFT
Graphics Controller	4MB Ati Rage	8MB Ati Rage	4MB Ati Rage	8MB Ati Rage
Keyboard	87/88 full size keys, 12 function keys			
Ports	Parallel, serial, 2 × USB			
Power supply	Free voltage sensing			
Battery	SMART Lithium-ion			
Operating system	Windows 98			
Dimensions (W × D × H)	310 × 245 × 40mm			
Weight	2kg			
Warranty	Twelve months, collect and return			

	DESCRIPTION	PROCESSOR	RAM	DISPLAY	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	VM7450 CT Win 98	Cel 450MHz	64MB	12.1" TFT	64-32-81	936.71	➧	940.00	939.06
NEW	VM7500 CT Win 98	Cel 450MHz	64MB	12.1" TFT	64-95-86	1026.43	➧	➧	1029.00
NEW	VM7500CXT Win 98	Cel 500MHz	64MB	14.1" TFT	64-19-89	1266.83	➧	➧	1270.00
NEW	GT7500XT	PIII 450MHz	64MB	12.1" TFT	64-23-33	1525.18	➧	➧	1529.00
NEW	VM7600XCT	PIII 450MHz	64MB	12.1" TFT	64-39-42	1694.76	➧	➧	1699.00
NEW	GT7500XV	PIII 500MHz	64MB	14.1" TFT	64-28-17	2195.70	➧	➧	2199.00

OTHER ITEMS

FOR SAMSUNG ACCESSORIES SEE PAGE 79
FOR SAMSUNG MONITORS SEE PAGES 304, 318

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NOTEBOOK PC ACCESSORIES

FUJITSU SIEMENS COMPUTERS · ACER · SAMSUNG ELECTRONICS

SCENIC MOBILE 350/510/710/800

DESCRIPTION	FOR USE WITH	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Standard keyboard	350/510/710/800	62-67-14	26.75	27.99	27.71	27.43
Fully adjustable ergonomic keyboard	350/510/710/800	16-00-29	53.52	55.99	55.43	54.88
DVD ROM Drive in flexibay	800	17-12-68	257.77	➧	266.99	264.32
Alpine RuckSack Carry Case	Scenic Mobile	17-19-14	17.81	19.99	19.39	18.81

LIFEBOOK RANGES

DESCRIPTION	PART NO	FOR USE WITH	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
32MB SDRAM upgrade	PL090197	E3XX/B/C series	89-64-10	59.25	61.99	61.37	60.76
64MB SDRAM upgrade	PL090204	E3XX/B/C series	89-64-27	119.71	➧	123.99	122.75
32MB SDRAM (PC100)	PL090410	X/S/E5XX series	63-31-79	61.12	62.99	62.36	61.74
64MB SDRAM (PC100)	PL090411	X/S/E5XX series	63-54-32	97.28	➧	100.00	99.00
Power Cable (UK)	PC200009	E/B/C/X series	68-87-38	8.90	9.99	9.69	9.40
AC adaptor	PL090195	Lifebook 700	68-87-69	36.31	37.99	37.61	37.23
DVD-ROM	PL090241	W98 E Series	54-15-45	192.12	➧	198.99	197.00
Ext. 20x CD-ROM	PL090280	B series	54-15-14	102.33	➧	105.99	104.93

SAMSUNG GT/VM RANGES

DESCRIPTION	PART NO	FOR USE WITH	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
32MB SDRAM Upgrade	503729-001	GT/VM	54-14-04	78.21	79.99	79.51	79.03	✂
64MB SDRAM Upgrade	503729-002	GT/VM	54-14-11	147.54	➧	149.99	149.09	✂
128MB SDRAM Upgrade	503729-003	GT/VM	54-14-28	354.12	➧	359.99	357.83	✂
Battery Charger EUR incl. Adat. & Power Cord	503183-005	GT/VM	90-52-14	87.02	89.00	88.47	87.94	✂

ACER EXTENSA/TRAVELMATE RANGES

DESCRIPTION	PART NO.	FOR USE WITH	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
32MB SDRAM	91.47A23.002	All TravelMate	25-72-79	62.12	64.99	64.34	63.70
64MB SDRAM	91.47A23.003	All TravelMate	62-62-33	106.19	➧	109.99	108.89
128MB RAM	91.42C23.001	TM505/510/330/720	62-08-39	310.00	➧	310.00	310.00
AC Adaptor	91.43F28001	TM505/340	26-17-75	35.37	37.00	36.63	36.26
AC Adaptor (60W)	91.47A28.003	TravelMate 720/510	62-62-95	46.83	48.99	48.50	48.02
DockMate V docking station – 10/100 Ethernet	91.47A27.001	TravelMate 720	25-72-62	266.46	➧	275.99	273.23

OTHER ITEMS

FOR FUJITSU/SIEMENS NOTEBOOKS SEE PAGES 72–74
FOR SAMSUNG NOTEBOOKS SEE PAGE 78
FOR ACER NOTEBOOKS SEE PAGES 76–77

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

TOSHIBA

TOSHIBA
Quality Plus
RESELLER

EQUIUM 3200M SERIES



From £720.30+vat online

Best value specification, performance and availability for small and medium enterprise. *See page 164*

EQUIUM 7 SERIES



From £473.33+vat online

Greater value, improved performance, lower cost of ownership.
See pages 165 - 166

EQUIUM 2000



From £1505.23+vat online

Everything you like about Toshiba portables in a desktop
See page 164

see Toshiba's kiosk @ www.action.com/toshiba

SATELLITE PRO SERIES

TOSHIBA

TOSHIBA Quality Plus RESELLER



From £979.00+vat online

Excellent performance.... unbeatable value

See pages 83 - 85

PORTÉGÉ SERIES



Innovative style... power-packed performance

See pages 86 - 88

From £1255.00+vat online

TECRA SERIES



From £1674.81+vat online

A single portable computing platform

See pages 89-91

see Toshiba's kiosk @ www.action.com/toshiba

Lower prices on-line at action.com

NOTEBOOKS PCs

TOSHIBA



New **Satellite Pro** models with powerful attributes for outstanding functionality at a truly affordable price. Now including Intel's new mobile Pentium III processor with SpeedStep technology. See **pages 84 & 85**

Now models up to PIII600MHz

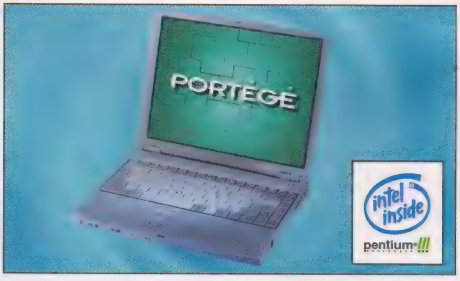
Please see www.action.com/toshiba for more products

14 DAY RETURNS POLICY APPLIES

for terms and conditions see pages 1075-1076

Slimline cases and compact dimensions mean that **Portégé** notebooks are highly portable with eye-catching style but make no compromise on power and specification. Catch up with the new range on **pages 86, 87 & 88.**

New sleek designs & up to PIII600MHz





Tecra from Toshiba is a stable, consistent platform for corporate users. Get ready to change the way your business thinks about choosing and managing portable computers. Now the new Tecra 8100 series expands possibilities even further with up to Pentium III 700MHz processors. **See page 89 & 90.**

New additions to Tecra family come with up to PIII700MHz

We stock a wide range of accessories for current, new and older Toshiba portables on pages 83 to 97 and on our web site at www.action.com. If you don't see what you need, give our Pre-sales technical support team a ring free of charge on 08701 66 44 44 and we may be able to source the item for you.

OTHER ITEMS

FOR TOSHIBA DESKTOP PCs SEE PAGES 164–166
FOR TOSHIBA MONITORS SEE PAGE 326

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NOTEBOOKS PCs

TOSHIBA

The **Toshiba Satellite Pro 4270** a powerful notebook, blending performance and practicality. The Satellite Pro 4270 is built to handle a multitude of tasks to support all demanding mobile business applications. These notebooks are fitted with a 5.6GB hard disk for massive storage capacity, plus 64MB RAM. Depending on the task in hand users can switch between floppy disk drive and the 24-speed CD-ROM. Whatever your computing needs this versatile notebook will instantly adapt to suit.



NO SUPPORT FOR DVD MPEG MOVIE PLAYBACK UNDER WIN NT

Model	Satellite Pro 4270 500
Processor	Intel Celeron (500MHz)
RAM	64MB (exp. to 320MB)
Hard drive	5.6GB
Floppy drive	Fixed 3.5" 1.44MB
CD-ROM drive	Fixed internal 24×
Modem	Integrated V.90 16K
Display	13" DSTN, 14.1" or 15" TFT
Ports	Parallel/serial port, SVGA, PS/2 keyboard/mouse port, IrDA infra-red, USB, RJ11,2×PC Card II or 1×PC Card Type III, microphone, headphone socket, NTSC/PAL video output
Power supply	Autosensing 100/240V adaptor
Battery	Removable, rechargeable Lithium-ion
Operating system	Windows 95/98 dual boot
Dimensions (W×D×H)	309×263×44mm or 327×274×44mm
Weight	3.06kg or 3.2kg
Warranty	One year UK and international

14 DAY RETURNS POLICY APPLIES
for terms and conditions see pages 1075-1076

FOR TECHNICAL SERVICES SEE PAGES 23–24

DESCRIPTION	PROCESSOR	RAM	DISPLAY	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Satellite Pro 4270 Win 95/98	Cel 500MHz	64MB	13" DSTN	64-19-14	979.00	➧	985.00	984.02	
Satellite Pro 4270 Win 95/98	Cel 500MHz	64MB	14.1" TFT	64-32-15	1295.76	➧	➧	1299.00	NEW
Satellite Pro 4270 NT/W2000 dual boot	Cel 500MHz	64MB	14.1" TFT	64-54-55	1345.63	➧	➧	1349.00	NEW
Satellite Pro 4270 Win 95/98	Cel 500MHz	64MB	15" TFT	64-95-51	1415.46	➧	➧	1419.00	NEW
Satellite Pro 4270 NT/W2000 dual boot	Cel 500MHz	64MB	15" TFT	64-19-15	1465.33	➧	➧	1469.00	NEW

OTHER ITEMS

FOR TOSHIBA ACCESSORIES SEE PAGES 92–97
FOR TOSHIBA DESKTOPS SEE PAGES 156–169
FOR TOSHIBA CARRY CASES SEE PAGE 95

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW *item on this page*

NOTEBOOK PCs – WITH CD–ROM

TOSHIBA



64-18-67

Toshiba have re-launched the high powered Satellite Pro. A powerful notebook, blending performance and practicality, the **Satellite Pro 4280** underlines Toshiba's commitment to offer the latest technologies across the range.

The Satellite Pro 4280 is built to handle a multitude of tasks thanks to its fast Intel Pentium III 500MHz. These notebooks are fitted with a 5.6GB hard disk for massive storage capacity, plus 64MB SDRAM. Depending on the task at hand, users can also switch between a 24 speed CD-ROM and floppy disk drive. Whatever form your computing needs take, this versatile notebook computer will instantly adapt to suit.

14 DAY RETURNS POLICY APPLIES

for terms and conditions see pages 1075-1076

intel inside pentium III

Model	Satellite Pro 4280
Processor	Intel Pentium III (500MHz)
RAM	64MB SDRAM (expandable to 576MB)
Hard drive	5.6GB
Floppy drive	Fixed 3.5" 1.44MB
CD-ROM drive	Fixed internal 4x max
Modem	Integrated 56Kbps
Display	13.3" or 14.1" TFT
Ports	Parallel serial, SVGA, PS/2 keyboard/mouse, IrDA, USB, RJ11, PC Card Type II or III, audio-in, mic, NTSC/PAL video output
Power supply	Autosensing 100/240V AC Adaptor
Battery	Removable, rechargeable Lithium-ion
Operating system	Windows 95/98 dual boot or Windows NT/2000 dual boot
Dimensions (W × D × H)	309 × 263 × 44mm
Weight	3.17kg
Warranty	12 months UK and International.

TOSHIBA Quality Plus RESELLER

NO SUPPORT FOR DVD MPEG MOVIE PLAYBACK UNDER WNT

	DESCRIPTION	PROCESSOR	RAM	DISPLAY	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	Satellite Pro 4280 Win 95/98	PIII 500MHz	64MB	13.3" TFT	64-18-67	1413.00	➧	➧	1419.00
	Satellite Pro 4280 Win NT	PIII 500MHz	64MB	13.3" TFT	64-31-87	1475.31	➧	➧	1479.00
NEW	Satellite Pro 4280 Win 95/98	PIII 500MHz	64MB	14.1"TFT	64-54-29	1595.01	➧	➧	1599.00
	ACCESSORIES								
✂	Targus Notepac Plus – Black Polyester				97-38-76	30.28	33.99	32.97	31.98
✂	Targus Air Notepac Plus – Black Polyester				54-02-54	35.63	39.99	38.79	37.63

OTHER ITEMS

FOR TOSHIBA ACCESSORIES SEE PAGES 92–97
FOR TOSHIBA CARRY CASES SEE PAGE 95

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

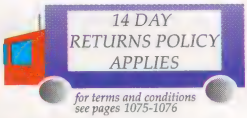
NOTEBOOK PCs – WITH DVD–ROM

TOSHIBA

These outstanding **new Satellite Pro 4320s** are built to deliver impressive performance at truly affordable prices. Available in a range of specifications to suit every mobile computing need, they combine advanced functionality with exceptional value. Satellite Pro portable PCs are ideal for the home office or personal mobile computing requirements and come with the latest powerful Intel mobile processors, integrated FDD and CD drives, high speed modems and advanced docking and connectivity capability.

Intel's new mobile Pentium III processors with **SpeedStep** technology allow the processor to run in two modes: Maximum performance mode and Battery Optimised mode. In battery optimised mode the processor will run at 500MHz thus saving power. This process is fully user customisable and can be switched back to maximum performance mode with ease.





Model	Satellite Pro 4320
Processor	Intel Pentium III (600MHz)
RAM	64MB SDRAM (expandable to 576MB)
Hard drive	11.24GB
Floppy drive	Fixed 3.5" 1.44MB
DVD-ROM drive	Fixed internal 6x max
Modem	Integrated 56Kbps
Display	14.1" TFT
Ports	Parallel serial, SVGA, PS/2 keyboard/mouse, IrDA, USB, RJ11, PC Card Type II or III, audio-in, mic, NTSC/PAL video output
Power supply	Autosensing 100/240V AC Adaptor
Battery	Removable, rechargeable Lithium-ion
Operating system	Windows 95/98 dual boot or Windows NT
Dimensions (W × D × H)	309 × 263 × 44mm
Weight	3.17kg
Warranty	12 months UK and International.

TOSHIBA Quality Plus RESELLER

NO SUPPORT FOR DVD MPEG MOVIE PLAYBACK UNDER WNT

DESCRIPTION	PROCESSOR	RAM	DISPLAY	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Satellite Pro 4320 Win 95/98	PIII 600MHz	64MB	14.1"TFT	64-18-68	1930.17	▶	▶	1935.00	NEW
Satellite Pro 4320 Win NT	PIII 600MHz	64MB	14.1" TFT	64-70-65	1974.06	▶	▶	1979.00	NEW
ACCESSORIES									
Targus Notepac Plus – Black Polyester				97-38-76	30.28	33.99	32.97	31.98	✂
Targus Air Notepac Plus – Black Polyester				54-02-54	35.63	39.99	38.79	37.63	✂

OTHER ITEMS
FOR TOSHIBA ACCESSORIES SEE PAGES 92–97
FOR TOSHIBA CARRY CASES SEE PAGE 95

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶ Save £££'s!
▶▶ Check live stock
▶▶ Track order status

NEW item on this page

NOTEBOOK PCs – WITH CD-ROM

TOSHIBA

TOSHIBA Quality Plus RESELLER



The Portégé family is specifically designed to meet the needs of the highly mobile professional. These advanced ultraportables combine exceptional power, performance, usability and reliability with a remarkably small, lightweight design.

Toshiba now complement this design mission with a new high in portable connectivity: the **Portégé 3000 Series** . Featuring an integrated 10/100 Ethernet adaptor, which you connect via the bundled LAN I/O adaptor, and V.90 modem, the Portégé 3000 series can be easily hooked up to a network for stationary operation and provides modem access while on the move without having to carry additional hardware. Furthermore, built in one are a number of ports into which numerous peripherals and leads can be connected and with the LAN I/O adaptor, you can use a SVGA monitor as a display as well as providing a PS/2 and USB port.

Model	3110CT	3410CT	3440CT
Processor	PII (300MHz)	Cel (400MHz)	PIII (500MHz)
RAM	64MB (expandable to 128)	64MB (expandable to 192)	
Hard drive	6.05GB	5.6GB	
CD-ROM drive	24x (Bundled)	24x (Optional)	
DVD ROM	6x Optional		
Modem	Integrated V.90 56Kbps		
Display	10.4" TFT	11.3" TFT	
Ports	Parallel/serial port, SVGA, PS/2 keyboard/mouse port. IrDA infra-red, USB, RJ11, 2 × PC Card Type III, mic, headphone socket		
Power supply	Autosensing 100-240V AC adaptor		
Battery	Removable Lithium-ion Up to 3 hours per charge (up to 8.5hrs with optional battery)		
Operating system	Windows 95/98 or Win NT/2000 dual boot		
Dimensions (W × D × H)	257 × 218 × 19.8mm		
Weight	1.42kg	1.55kg	
Warranty	12 months International		

NO SUPPORT FOR DVD MPEG MOVIE PLAYBACK UNDER WNT

14 DAY RETURNS POLICY APPLIES

for terms and conditions see pages 1075-1076

	DESCRIPTION	PROCESSOR	RAM	HDD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	Portégé 3110CT Win 95/98	PII 300MHz	64MB	6.05GB	64-77-13	1255.00	➧	➧	1259.00
NEW	Portégé 3410CT Win 95/98	Cel 400MHz	64MB	10.4"TFT	64-95-88	1265.83	➧	➧	1269.00
NEW	Portégé 3410CT Win NT/2000 Dual Boot	Cel 400MHz	64MB	10.4"TFT	64-19-91	1306.72	➧	➧	1309.99
NEW	Portégé 3440CT Win 95/98	PIII 500MHz	64MB	11.3"TFT	64-23-35	1506.22	➧	➧	1509.99
NEW	Portégé 3440CT Win NT/2000 Dual Boot	PIII 500MHz	64MB	11.3"TFT	64-39-43	1545.13	➧	➧	1549.00

OTHER ITEMS

FOR TOSHIBA ACCESSORIES SEE PAGES 92–97
FOR TOSHIBA DESKTOPS SEE PAGES 164–166
FOR TOSHIBA CARRY CASES SEE PAGE 95

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NOTEBOOK PCs

TOSHIBA

Toshiba has drawn on a unique heritage in developing powerful miniaturised technology to create a range of lightweight, ultra-portable PCs with the specification to handle any computing task, anywhere in the world.

Slim-line case and compact dimensions mean the **Portégé 7140** portable PCs travel with the greatest of ease and never fail to impress, they make no compromise in terms of power and specification. You will find the latest processors, state-of-the-art graphics plus advanced CD/DVD-ROM docking and expansion options.



64-49-77

FOR MORE PRODUCTS SEE www.action.com/toshiba

14 DAY RETURNS POLICY APPLIES

for terms and conditions see pages 1075-1076

FOR TECHNICAL SERVICES SEE PAGES 23–39

Model	Portégé 7140CT
Processor	Intel Pentium III (500MHz)
RAM	64MB SDRAM (expandable to 320MB)
Hard drive	5.6GB
Floppy drive	Fixed 3.5" 1.44MB
Modem	Integrated V.90 56Kbps
Display	13.3" TFT
Ports	SVGA, IrDA, USB, 2 × PC Card Type II or 1 × PC Card Type III (CardBus supported) headphone, mic, FDD, docking connector, RJ-11, I/O Adaptor connector
Power supply	Autosensing 100/240V AC Adaptor
Battery	Removable, rechargeable Lithium-ion
Operating system	Windows 95/98 dual boot or Windows NT/Win 2000 dual boot
Dimensions (W × D × H)	297 × 241 × 25mm
Weight	2.0kg
Warranty	Three years UK and International.

NO SUPPORT FOR DVD MPEG MOVIE PLAYBACK UNDER WNT

DESCRIPTION	PROCESSOR	RAM	HDD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Portégé 7140CT W95/98	PIII 500MHz	64MB	5.6GB	64-49-77	1794.51	◗	◗	1799.00
Portégé 7140CT WNT	PIII 500MHz	64MB	5.6GB	64-12-76	1834.41	◗	◗	1839.00
ACCESSORIES								
Targus Leather Notebook – Black Leather				73-28-59	64.14	71.99	69.83	67.74

OTHER ITEMS

FOR TOSHIBA ACCESSORIES SEE PAGES 92–97
FOR TOSHIBA CARRY CASES SEE PAGE 95

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW *item on this page*

NOTEBOOK PCs

TOSHIBA



64-08-65

Intel's SpeedStep™ technology is featured in the **new Portégé 7200CT** with its mobile Intel Pentium III processors. By automatically switching between two performance modes it enables mobile users to reach an unprecedented level of performance without compromising battery life. The best thing about SpeedStep™ is that it's automatic, the user doesn't have to worry about the technology – they can just enjoy unprecedented mobile PC performance!

With the Portégé 7200 you'll find the lastest processors, state-of-the-art graphics, plus advanced CD-ROM and DVD-ROM docking and expansion options. High-powered computing has never been so mobile or desirable.

intel inside pentium III

14 DAY RETURNS POLICY APPLIES

for terms and conditions see pages 1075-1076

Model	Portégé 7200CT
Processor	Intel Pentium III SpeedStep (600MHz)
RAM	64MB SDRAM (expandable to 320MB)
Hard drive	11.24GB
Floppy drive	Fixed Internal 3.5" 1.44MB
Modem	Integrated V.90 56Kbps
Display	13.3" TFT
Ports	SVGA, IrDA, USB, 2×PC Card Type II or 1×PC Card Type III (CardBus supported) headphone, mic, FDD, docking connector, RJ-11, I/O adaptor connector
Power supply	Autosensing 100-240V AC Adaptor
Battery	Removable, rechargeable Lithium-Ion
Operating system	Windows 95/98 dual boot or Windows NT/Win 2000 dual boot
Dimensions (W×D×H)	297×241×23/28mm (front/back)
Weight	2.0kg
Warranty	Three years UK and International

TOSHIBA Quality Plus RESELLER

NO SUPPORT FOR DVD MPEG MOVIE PLAYBACK UNDER WNT

	DESCRIPTION	PROCESSOR	RAM	HDD	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	Portégé 7200CT W95/98	PIII 600MHz	64MB	11.24GB	64-08-65	2075.88	➧	➧	2079.00
NEW	Portégé 7200CT WNT	PIII 600MHz	64MB	11.24GB	64-39-18	2125.81	➧	➧	2129.00
	ACCESSORIES								
✂	Targus Leather Notebook – Black Leather				73-28-59	64.14	71.99	69.83	67.74

OTHER ITEMS

FOR TOSHIBA ACCESSORIES SEE PAGES 92–97
FOR TOSHIBA CARRY CASES SEE PAGE 95

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NOTEBOOK PCs – WITH CD-ROM

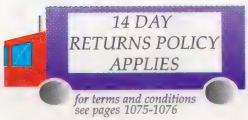
TOSHIBA

The **Tecra 8000** series features an outstanding **PIII 500MHz** Intel Pentium processor.

The Pentium III processor extends processing power further by offering performance headroom for business media, communication and Internet capabilities. The Pentium III processor offers great performance for today's and tomorrow's applications as well as quality, reliability and compatibility.
The 14.1" TFT screen uses advanced technology to provide a bright and crisp display that can achieve resolutions up to 1024 × 768 in 16.7 million colours.



64-31-49





Model	Tecra 8000
Processor	Intel Pentium III (500MHz)
RAM	64MB SDRAM (expandable to 256MB)
Hard drive	6.0GB
Floppy drive	External/Internal swappable 3.5" 1.44MB
CD-ROM drive	24 × speed
Modem	Integrated V.90 56K Modem
Display	14.1" TFT
Ports	ECP Parallel port, Serial port, SVGA monitor port, PS/2 keyboard/mouse port, IrDA, USB, 2 × PC Card Type II or 1 × PC Card Type III (CardBus supported)
Power supply	Autosensing AC Adaptor (100–240V)
Battery	Removable Rechargeable Lithium-Ion
Operating system	Windows 95/98 or Windows NT
Dimensions (W × D × H)	311 × 254 × 42mm
Weight	2.8kg
Warranty	12 months international.

TOSHIBA Quality Plus RESELLER

NO SUPPORT FOR DVD MPEG MOVIE PLAYBACK UNDER WNT

DESCRIPTION	PROCESSORS	RAM	HDD	DISPLAY	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Tecra 8000 Win 95/98	PIII 500MHz	64MB	6.0GB	14.1" TFT	64-31-49	1924.18	➧	➧	1929.00	✂
Tecra 8000 Win NT	PIII 500MHz	64MB	6.0GB	14.1" TFT	64-54-01	1974.06	➧	➧	1979.00	
ACCESSORIES										
Targus Leather Notebook – Black Leather					73-28-59	64.14	71.99	69.83	67.74	✂

OTHER ITEMS
FOR TOSHIBA DESKTOP PCs SEE PAGES 164–166
FOR TOSHIBA ACCESSORIES SEE PAGES 92–97
FOR TOSHIBA CARRY CASES SEE PAGE 95

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

▼ NEW item on this page ▼

NOTEBOOK PCs – WITH CD-ROM

TOSHIBA



64-31-81

The **new Tecra 8100** provides a platform you can standardise and rely on, both now and in the future- and with true style. The latest Intel Pentium III processors with SpeedStep™ technology running at incredibly fast clock speeds and the introduction of a new, modular docking solution are complemented by a stylish, thinner and lighter form factor for superior portability.

Tecra 8100 portable PCs offer a versatile mobile computing Platform, designed to meet the needs of a wide range of users tasks – from mid-range processing to the most intensive top-end applications. Simply choose different specifications to suit different users, applications and budgets.

14 DAY RETURNS POLICY APPLIES
for terms and conditions see pages 1075-1076

intel inside pentium III

Model	Tecra 8100
Processor	Intel Pentium III (500 or 600MHz)
RAM	64MB SDRAM (expandable to 512MB)
Hard drive	5.6GB
Floppy drive	Fixed Internal 3.5″ 1.44MB or Modular 3.5″ 1.44MB (PIII600)
CD-ROM Drive	24×
Modem	Integrated V.90 56K Modem
Display	13.3″ TFT or 14.1″ TFT (PIII600)
Ports	Parallel, Serial, SVGA, PS/2 keyboard/mouse, IrDA, USB, RJ11, PC Card Type II or Card Type III, audio-in, mic, NTSC/PAL video output, docking connector
Power supply	Autosensing 100-240V AC Adaptor
Battery	Removable Smart Lithium-Ion
Operating system	Windows 95/98 or Windows NT
Dimensions (W × D × H)	312 × 254 × 36mm
Weight	2.6kg with CD
Warranty	Three years UK and International

TOSHIBA Quality Plus RESELLER

NO SUPPORT FOR DVD MPEG MOVIE PLAYBACK UNDER WNT

	DESCRIPTION	PROCESSOR	RAM	HDD	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	Tecra 8100 W95/98	PIII 500MHz	64MB	5.6GB	64-31-81	1674.81	▶	▶	1679.00
NEW	Tecra 8100 WNT	PIII 500MHz	64MB	5.6GB	64-27-95	1714.71	▶	▶	1719.00
NEW	Tecra 8100 W95/98	PIII 600MHz	64MB	5.6GB	64-37-01	2185.72	▶	▶	2189.00
NEW	Tecra 8100 WNT	PIII 600MHz	64MB	5.6GB	64-98-50	2215.67	▶	▶	2219.00
	ACCESSORIES								
✂	Targus Leather Notebook – Black Leather				73-28-59	64.14	71.99	69.83	67.74

OTHER ITEMS

FOR TOSHIBA ACCESSORIES SEE PAGES 92–97
FOR TOSHIBA CARRY CASES SEE PAGE 95

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶Save £££'s!
▶▶Check live stock
▶▶Track order status

NOTEBOOK PCs – WITH CD/DVD-ROM

TOSHIBA

The **new Tecra 8100** portable PCs have been designed from the outset to be long-life, stable platforms with the best of class manageability and security features built-in. Corporate customers will quickly realise the benefits of this approach with everyone using the same computer platform, reducing training costs and making it cheaper and easier to support a corporate fleet.

Tecra 8100 PCs make use of an innovative Serial PCI modular docking solution that suits them at the time, upgrading as capabilities and needs expand. The latest Intel Pentium III processors with SpeedStep™ technology running at incredibly fast clock speeds and the introduction of a new, modular docking solution are complemented by a stylish, thinner and lighter form factor for superior portability.



64-54-30

intel inside pentium III

14 DAY RETURNS POLICY APPLIES

for terms and conditions see pages 1075-1076

Model	Tecra 8100
Processor	Intel Pentium III SpeedStep (650 or 700MHz)
RAM	64MB or 128MB SDRAM (expandable to 512MB)
Hard drive	11.24GB
Floppy drive	External/Internal Swappable 3.5" 1.44MB
DVD-ROM Drive	6× V.90 56K modem
Modem	Integrated V.90 56Kbps
Display	14.1" TFT
Ports	Parallel, Serial, SVGA, PS/2 keyboard/mouse, IrDA, USB, RJ11, PC Card Type II or Card Type III, audio-in, mic, NTSC/PAL video output, docking connector for NetDock
Power supply	Autosensing 100-240V AC Adaptor
Battery	Removable Smart Lithium-Ion
Operating system	Windows 95/98 or Windows NT/2000 dual boot
Dimensions (W×D×H)	312×254×37mm
Weight	2.65kg
Warranty	Three years UK and International

TOSHIBA Quality Plus RESELLER

NO SUPPORT FOR DVD MPEG MOVIE PLAYBACK UNDER WNT

DESCRIPTION	PROCESSOR	RAM	HDD	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Tecra 8100 W95/98	PIII 650MHz	64MB	11.24GB	64-54-30	2595.10	➧	➧	2599.00	NEW
Tecra 8100 WNT	PIII 650MHz	64MB	11.24GB	64-78-12	2674.98	➧	➧	2679.00	NEW
Tecra 8100 W95/98	PIII 700MHz	64MB	11.24GB	64-19-90	CHECK ONLINE	➧	➧	FREE Call	NEW
Tecra 8100 NT/W2000	PIII 700MHz	64MB	11.24GB	64-32-84	CHECK ONLINE	➧	➧	FREE Call	NEW
ACCESSORIES									
Targus Leather Notebook – Black Leather				73-28-59	64.14	71.99	69.83	67.74	

OTHER ITEMS

FOR TOSHIBA ACCESSORIES SEE PAGES 92–97
FOR TOSHIBA CARRY CASES SEE PAGE 95

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NOTEBOOK ACCESSORIES

TOSHIBA

	DESCRIPTION	FOR USE WITH	TOSHIBA PART NO	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	10 CD-ROM Pack	Sat. 220/230, Sat Pro 460, 480Tecra 540/550	PA2610U	86-80-60	147.22	➧	152.49	150.97
	SelectBay 24 CD-ROM Drive	Tecra 8000	PA2665U	25-88-90	178.12	➧	184.49	182.65
	SelectBay 24 × CD-ROM Drive	Tecra 8100	PA3015U	64-95-48	90.80	95.00	94.05	93.11
	CD-ROM Network Dock	Portégé 7010/7020	PA2723U	62-71-60	339.49	➧	348.99	345.50
	SelectBay DVD-ROM	Tecra 8000	PA3026E	62-49-12	240.39	➧	248.99	246.50
	SelectBay DVD-ROM Drive	Tecra 8100	PA3014E	64-54-52	236.54	➧	245.00	242.55
	MPEG II Decoder & Driver to support DVD Video	Tecra 8000	PA2834U	62-49-05	93.89	97.49	96.52	95.55
NEW	SelectBay CD-RW	Tecra 8000/8100	2793009	64-23-42	369.64	➧	379.99	376.19
NEW	PC Card Mobile CD-RW*	Tecra 8100	2793008	65-17-17	345.32	➧	354.99	351.44
	24 × PC Card Mobile CD-ROM drive	All Toshiba notebooks in catalogue	2793020UK	62-85-92	159.30	➧	165.00	163.35
	DeskStation V Plus	Tecra 8000	PA2710U	96-70-19	603.11	➧	619.99	613.79
	CardStation II Enhanced	Tecra 8000	PA2716U	67-74-19	297.66	➧	305.99	302.93
	CardStation III	Sat 4000/Pro/Tecra 8000	PA2717U[1]	86-59-39	238.46	➧	246.99	244.52
	CardStation III Spacer	4030/4060/4080 Sat 4000/Pro Models	PA2730U[2/3]	66-75-92	51.60	53.99	53.45	52.92
	Cardstation III Adaptor	Tecra 8000	PA2721U	26-10-14	77.41	80.99	80.18	79.38
	Cardstation IV	Portege 7020	PA3024E	64-95-32	255.84	➧	264.99	262.34
	DVD Network Dock	Portégé 7010/7020	PA2722U	26-19-80	452.80	➧	468.99	464.30
	Mini CardStation	Libretto 50/70	PA2718U	87-58-33	167.02	➧	172.99	171.26
	I/O Adaptor	Portégé 3010/3020CT	PA2727U	48-82-20	56.38	58.99	58.40	57.82
	I/O Adaptor	Portégé 7010/7020CT	PA2728U	48-82-37	56.38	58.99	58.40	57.82
	CD-ROM Network Docker	Portégé 7010/7020	PA2723U	62-71-60	339.49	➧	348.99	345.50
	Network Dock	Tecra 8000	PA2724U	48-83-47	329.76	➧	338.99	335.60
	Port Replicator	Satellite 4000 Series/ Tecra 8000	PA2731U	64-18-11	115.85	➧	119.99	118.79
	LAN I/O Adaptor	Portégé 3110CT	PA2734U[3/4]	64-18-33	95.57	99.99	98.99	98.00
	Mini I/O Adaptor	Portégé 3110CT	PA2735U	64-31-50	43.00	44.99	44.54	44.09
	Extended 2 Yr UK & International Warranty	Portégé 3110CT/3410CT/3440CT Sat Pro 4270/4280/4320	-	64-31-18	125.02	➧	129.49	128.20

* Please be aware that CD-RW media may not be read correctly by older specification CD-ROMs.

[1]CardStation III requires CardStation III Spacer (PA2730U) to convert it to operate with these Satellite models.
[2]I/O Adaptor with port replication facilities.
[3]I/O Adaptors supplied as standard with Portégé models. Also available as an option.
[4]LAN I/O Adaptor with port replication facilities and RJ45 10/100 Ethernet Connector.

OTHER ITEMS

FOR TOSHIBA NOTEBOOK PCs SEE PAGES 82–91
FOR OTHER TOSHIBA ACCESSORIES SEE PAGES 92–97

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NOTEBOOK PC ACCESSORIES

TOSHIBA

MEMORY UPGRADES

DESCRIPTION	FOR USE WITH	TOSHIBA PART NO	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
16MB RAM	Portege 620, Sat 110/200/210, Sat Pro 420/430, Tecra 730/740	PA2032U	78-48-52	76.55	79.49	78.70	77.91	✂
16MB RAM	Sat 220/2520/2540/320, Sat Pro 480/490, Tecra 550/780	PA2039U	98-02-92	45.25	46.99	46.52	46.05	✂
16MB RAM	Libretto 50/70	PA2056U	87-58-19	83.62	87.49	86.62	85.75	✂
32MB RAM	Portégé 610/620, Tecra 710/720/730/740, Sat 200/210, Sat Pro 400–430	PA2034U	78-57-72	122.56	➧	125.99	124.73	✂
32MB RAM	Sat Pro Series Portégé 7140/7200 Tecra 8100	PA3003U	64-18-57	71.68	74.99	74.24	73.50	✂
32MB RAM	Portégé 650/660, Sat 2520/2540/300/310/320, Tecra 520/530/540/550/750/780	PA2043U	98-03-02	72.22	74.99	74.24	73.50	✂
32MB RAM	Tecra 500/510/Sat 220/230 Sat Pro 440/480/490	PA2040U	98-03-26	121.60	➧	125.00	123.75	
32MB RAM	Portégé 7020, Sat 2060/2550/2590/4000/4010/4030/4060/4070/4080/4100/Tecra 8000	PA2060U	62-43-45	72.22	74.99	74.24	73.50	✂
32MB RAM	Libretto 100/110	PA2059U	25-27-86	89.55	92.99	92.06	91.14	✂
32MB RAM	Portégé 300	PA2053U	67-62-69	89.55	92.99	92.06	91.14	✂
32MB RAM	Portégé 3010/3020	PA2063U	48-82-06	89.55	92.99	92.06	91.14	✂
32MB RAM	Portégé 3110CT	PA2071U	64-22-92	72.22	74.99	74.24	73.50	✂
48MB RAM	Tecra 500/510/Sat 220/230 Sat Pro 440/460/480/490	PA2041U	98-03-33	140.07	➧	143.99	142.55	✂
64MB RAM	Sat Pro Series Portégé 7140/7200 Tecra 8100	PA3004U	64-31-79	125.48	➧	128.99	127.70	✂
64MB RAM	Portégé 650/660, Sat 2520/2540/300/310/320, Sat Pro 490, Tecra 520/530/540/550	PA2044U	67-62-83	121.59	➧	124.99	123.74	✂
64MB RAM	Portégé 3110	PA2069U	64-18-07	149.65	➧	155.00	153.45	
64MB RAM	Portégé 7010/7020, Sat 2060/2550/2590/4000/4010/4030/4060/4070/4080/4100/Tecra 8000	PA2061U	25-88-83	126.45	➧	129.99	128.69	✂
64MB RAM	Portégé 3010/3020	PA2067U	48-82-13	243.18	➧	249.99	247.49	✂
128MB RAM	Sat 220/230, Sat Pro 440/460/480/490, Tecra 500/510	PA2042U	98-03-40	243.18	➧	249.99	247.49	✂
128MB RAM	Tecra 520/530/540/550	PA2054U	67-62-90	243.18	➧	249.99	247.49	✂
128MB RAM	Portégé 7010/7020, Sat 2060/2550/2590/4000/4010/4030/4060/4070/4080/4100/Tecra 8000	PA2062U	17-23-85	284.81	➧	295.00	292.05	
128MB RAM	Sat Pro Series Portégé 7140/7200 Tecra 8100	PA3005U	64-54-23	284.81	➧	295.00	292.05	

OTHER ITEMS

FOR PRINTERS SEE PAGES 371–459
FOR SECURITY PRODUCTS SEE PAGES 510–549

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

NOTEBOOK PC ACCESSORIES

TOSHIBA

Toshiba offer a range of six carry cases all providing stylish, lightweight protection and offer ample storage space not just for a notebook PC but also to house peripherals and accessories. All come with a carry handle and are covered by a lifetime warranty.
The **New 3-way Backpack** comes with a variety of pockets/compartments to carry not only your PC but files, pens, keys and other necessary accessories. There is also a moulded, padded back panel for comfort along with adjustable shoulder strap and a single carrying handle.



Delegate II carry case



Ambassador carry case



Envoy carry case



Senator carry case



3-Way Backpack carry case



Portégé carry case

	Delegate II	Ambassador	Envoy	Senator	Backpack	Portégé
Satellite 4000	✓	✓	✓	✓	✓	
Satellite Pro 4200	✓	✓	✓	✓	✓	
Portégé 3XXX	✓	✓	✓	✓	✓	✓
Portégé 7XXX	✓	✓	✓	✓	✓	✓
Tecra 8000	✓	✓	✓	✓	✓	

TOSHIBA Lifetime Warranty

DESCRIPTION	DIMENSIONS (W × D × H)mm	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Delegate II Carry Case	400 × 333 × 180	64-31-74	43.00	44.99	44.54	44.09
Ambassador Carry Case	440 × 350 × 150	64-95-29	108.20	▶	109.99	109.33
Envoy Carry Case	440 × 330 × 140	64-18-46	23.89	24.99	24.74	24.49
Senator Carry Case	440 × 340 × 150	64-54-20	62.12	64.99	64.34	63.70
3-way Backpack	350 × 400 × 150	64-12-62	38.22	39.99	39.59	39.19
Portégé Leather Carry Case	410 × 110 × 340	35-20-07	86.01	89.99	89.09	88.20

OTHER ITEMS

FOR TOSHIBA NOTEBOOK PCs SEE PAGES 82–91
FOR OTHER TOSHIBA ACCESSORIES SEE PAGES 92–97

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NOTEBOOK PC ACCESSORIES

TOSHIBA

STORAGE

STORAGE	FOR USE WITH	PART NO.	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
2.02GB HDD expansion	Tecra 500/510/730/740/750/780	PA2660U	86-38-69	375.56	➧	388.99	385.10
2.02GB HDD expansion	Sat 220/230/Sat Pro 440/460/ 480, Tecra 520/530/540/550	PA2609U	67-63-17	375.56	➧	388.99	385.10
3.8GB HDD expansion	Tecra 8000	PA2667U	62-44-55	243.18	➧	249.99	247.49
6.0GB HDD expansion	Tecra 8000/8100	PA3072U	62-45-72	272.37	➧	279.99	277.19
External FDD	Libretto 50/70	PA2612U	67-82-74	141.91	➧	146.99	145.52
External FDD	Libretto 100/110	PA2940U	25-63-59	141.91	➧	146.99	145.52
External FDD	Portégé 3010/3020/3110/ 7010/7020CT	PA2669U	48-83-54	74.14	76.99	76.22	75.46
SelectBay Zip Drive	Tecra 8000/8100	2793004	64-54-02	217.22	➧	224.99	222.74
SelectBay LS-120 Super Disk Drive	Tecra 8000/8100	TPIILSD120	64-18-58	188.26	➧	194.99	193.04
Zip 100 Mini Drive	All Toshiba Notebooks	TP06ZIP102	64-70-51	154.47	➧	159.99	158.39

BATTERY PACKS

DESCRIPTION	FOR USE WITH	TOSHIBA PART NO	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Battery pack NiH_2	T2100/Sat 100	PA2437UY	77-41-92	88.88	92.99	92.06	91.14
Battery pack NiH_2	T1900/T1900C/T1900S/T1950	PA2420U	73-10-32	88.88	92.99	92.06	91.14
Battery pack NiH_2	T1910/T4800/T4850/T4900	PA2429UR	75-60-79	76.55	79.49	78.70	77.91
Battery pack Li-ion	Sat 2060-4100, Sat Pro 420-490	PA2487URG	62-45-89	123.53	➧	126.99	125.72
Battery pack Li-ion	Tecra 730/740	PA2485UR	80-54-87	164.12	➧	169.99	168.29
Battery pack NiMH	Satellite 110/200	PA2439UR	98-04-05	71.68	74.99	74.24	73.50
Battery pack Li-ion	Tecra 500/510	PA2490UR	98-04-12	183.43	➧	189.99	188.09
Battery pack Li-ion	Libretto 50	PA2497UR	86-78-58	108.94	➧	111.99	110.87
Battery pack Li-ion	Libretto 70	PA2452UR	68-99-40	95.57	99.99	98.99	98.00
Battery pack Li-ion	Libretto 100	PA2502UR	69-95-38	90.79	94.99	94.04	93.10
Battery pack Li-ion	Portégé 300/320	PA2441UR	67-63-31	95.57	99.99	98.99	98.00
Battery pack Li-ion	Tecra 520/530/540/550	PA2448UR	67-63-48	122.61	➧	126.99	125.72
Battery pack Li-ion	Tecra 780	PA2454UR	62-46-06	122.61	➧	126.99	125.72
Battery pack Li-ion	Tecra 8000	PA2510UR	62-45-96	111.99	➧	115.99	114.83
Battery pack Li-ion	Portégé 7010/7020	PA2505UR	62-49-29	115.85	➧	119.99	118.79
Battery pack Li-ion	Portégé 3010/3020	PA2457UR	48-82-44	76.46	79.99	79.19	78.40
High Capacity Battery pack Li-ion	Portégé 3110	PA2467UR	64-18-59	115.85	➧	119.99	118.79
High Capacity Battery pack Li-ion	Portégé 7010/7020	PA2506UR	62-49-36	144.81	➧	149.99	148.49

OTHER ITEMS

FOR CARRY CASES SEE PAGES 95, 100–107
FOR PCMCIA ACCESSORIES SEE PAGE 108–110
FOR TOSHIBA NOTEBOOK PCs SEE PAGES 82–91

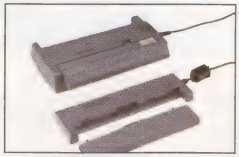
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

NOTEBOOK PC ACCESSORIES

TOSHIBA

TOSHIBA Quality Plus



14 DAY RETURNS POLICY APPLIES

for terms and conditions see pages 1075-1076

DESCRIPTION	FOR USE WITH	TOSHIBA NO.	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
RECHARGABLE BATTERIES & POWER							
High capacity battery	Libretto 70	PA2498UR	42-70-23	108.12	➧	111.99	110.87
High capacity battery	Libretto 100	PA2503UR	24-07-50	139.02	➧	143.99	142.55
High capacity battery	Portégé 7010/7020	PA2506UR	62-49-36	144.81	➧	149.99	148.49
High capacity battery	Portégé 320	PA2442UR	25-54-91	125.50	➧	129.99	128.69
High capacity battery	Portégé 3010	PA2458UR	48-82-51	120.67	➧	124.99	123.74
2nd Battery Enclosure + Battery	Sat Pro 480, 490, Tecra 550, 8000	PA2451UR	88-45-70	184.82	➧	189.99	188.09
2nd Battery Enclosure + Battery	Tecra 750, 780	PA2446UR	55-43-05	186.33	➧	192.99	191.06
Battery Charger	Satellite & Sat. Pros	PA2488UE	96-94-88	185.36	➧	191.99	190.07
Battery Charger	Libretto 100/110/50/70	PA2499UE	25-07-19	185.36	➧	191.99	190.07
✂ Battery Charger	Tecra 8000	PA2509UE	62-46-13	179.95	➧	184.99	183.14
✂ Battery Charger	Portégé 3010/3020/3110	PA2513UE	48-83-09	166.33	➧	170.99	169.28
Battery Charger	Portégé 7010/7020	PA2508UE	48-83-16	184.82	➧	189.99	188.09
Battery Charger	Tecra 520/530/540/550	PA2449UE	48-83-23	183.84	➧	188.99	187.10
✂ Spare AC adaptor	Portégé 7010/7020	PA2450UY	67-65-44	50.07	51.99	51.47	50.96
✂ Spare AC adaptor	Libretto 70/50	PA2500UE	88-63-89	50.07	51.99	51.47	50.96
✂ Spare AC adaptor	Libretto 100/110, Portégé 3010/3020/3110	PA2501UE	25-27-93	50.07	51.99	51.47	50.96
✂ Spare AC adaptor	Portégé 300/320/620	PA2440UE	67-65-51	50.07	51.99	51.47	50.96
AC adaptor	T1900C/T1950/T4700/T1910/T4800	PA2478U	73-10-56	50.07	51.99	51.47	50.96
✂ AC adaptor	Tecra 700/710/720/730	PA2484UE	80-55-04	50.07	51.99	51.47	50.96
✂ Power Cord	Satellite's/Sat Pro's/Tecra 500/510	PWRCORD3M	96-06-83	4.52	4.69	4.64	4.60
In Car/Air Adaptor ✂	Sat 4070/4080/4090/4100 Sat Pro 4220/ Portégé 7010/7020/ Tecra 8000	TPO91CA003	64-18-12	59.70	61.99	61.37	60.76
DESK-BASED ACCESSORIES							
Monitor Stand (Dark Grey)	All Toshiba Notebooks	TPO5STA001	64-31-67	38.62	44.99	43.19	41.46
Keyboard	All Toshiba Notebooks	TP12KBD002	81-41-64	51.51	53.49	52.96	52.43
Mouse	All Toshiba Notebooks	TP12MSE022	54-15-83	28.19	29.49	29.20	28.90
Hardware Anti-Theft Alarm	All Toshiba Notebooks	TPO3ALM001	17-18-41	38.23	40.00	39.60	39.20
Battery Charger	Tecra 8100	PA3011E	64-70-76	179.95	➧	184.99	183.14

OTHER ITEMS

FOR TOSHIBA PORTABLE PCs SEE PAGES 82–91
FOR MEMORY UPGRADES SEE PAGES 87, 202, 203
FOR CARRY CASES SEE PAGES 95, 100–107

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NOTEBOOK PC ACCESSORIES

TOSHIBA

MODEMS & COMMUNICATIONS

With Toshiba portable PCs, communications on the move has never been easier.
The **Advanced global V.90 56k data/fax PC card** (ISDN and GSM ready) is ideal for high speed data transfer from networks or the Internet, when download times need to be kept to a minimum. An ISDN upgrade means fast, digitally-secure data communications. It is built with reliability, performance and flexibility in mind.
For true mobile communication, Toshiba's data/fax PC card can be used in conjunction with any of **Toshiba's GSM upgrade kits** to transmit and receive data via GSM cellular phones.



46-71-17

TOSHIBA Quality Plus RESELLER

14 DAY RETURNS POLICY APPLIES
for terms and conditions see pages 1075-1076

DESCRIPTION	TOSHIBA PART NO.	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Advanced Global V.90 56K Data/Fax PC Card	TPO4GMV561	45-19-10	129.35	➧	129.95	129.85	
ISDN Upgrade for Advanced PC Card Modems	TP091SD001	46-71-17	119.64	➧	122.99	121.76	✂
GSM upgrade kit (Nokia 2110)	TP07GUN211	44-30-69	77.03	79.99	79.19	78.40	✂
GSM upgrade kit (Nokia 8110)	TP07GUN811	44-30-76	77.03	79.99	79.19	78.40	✂
GSM upgrade kit (Panasonic G350/400)	TP07GUP001	44-30-83	77.03	79.99	79.19	78.40	✂
GSM upgrade kit (Nokia 5110/6110)	TP07GUN611	46-70-76	77.03	79.99	79.19	78.40	✂
V90 56K DAA Modem Module (Tecra 8000)	PA2853U	64-54-24	114.78	➧	117.99	116.81	✂
Video Conferencing Camera Kit	PA2825E	67-62-45	135.20	➧	138.99	137.60	
Advanced Mobile Comms Solution (Nokia 8110)	TP09MCS811	46-71-00	86.01	89.99	89.09	88.20	

NETWORKING

DESCRIPTION	FOR USE WITH	TOSHIBA PART NO.	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Advanced 10/100 Card Bus Ethernet PC Card	Libretto/Satellite's/Satellite Pro's/Portégé's/Tecra series	TP07CBE100	64-95-33	90.79	94.99	94.04	93.10

OTHER ITEMS
FOR CARRY CASES SEE PAGES 94, 100–104
FOR TECHNICAL SERVICES SEE PAGES 23–39

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

NOTEBOOK PC CLEARANCE BARGAINS

DESCRIPTION	GRADE	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Acer/TI (10/100 Ethernet) Dockmate V Doc	2	19-51-99	223.20	➧	223.20	223.20
Acer/TI Extensa 710TE PII233 4GB 32MB 13" XG	3	62-54-92	599.00	➧	599.00	599.00
AST Ascentia M5230X/4000 P233MHz MMX 64MB/4.0GB	3	89-69-60	599.00	➧	599.00	599.00
Casio Casiopeia Palm Top PC	3	17-05-14	242.00	➧	242.00	242.00
Compaq Aero 2120 8MB Handheld PC	3	52-95-76	179.00	➧	179.00	179.00
Compaq Armada A35 6266T Pii266 4.1GB 32MB	3	62-33-22	599.00	➧	599.00	599.00
Fujitsu Lifebook C4110 W98 C333MHz/32MB/12.1	3	64-49-58	1059.00	➧	➧	1059.00
Fujitsu Lifebook L460 (G2) WNT PII333/32MB	2	19-09-00	899.00	➧	899.00	899.00
Hitachi SA300-26XT 6266/64MB/3.2GB/CD/13.3 TFT/W98	3	62-86-95	599.00	➧	599.00	599.00
HP Omnibook 4150 4151/300/64MB/6.4GB/NT V4	3	13-96-34	699.00	➧	699.00	699.00
HP Omnibook 900 (F1711W) PII PE-300/ 32MB/4.3GB/12.1	3	54-09-62	999.00	➧	999.00	999.00
HP Omnibook 900 PII450 6.0GB 32MB 12.1 TFT W95/98	3	64-94-95	999.00	➧	999.00	999.00
IBM Thinkpad 770X (720) PII300 8.1GB 64MB	3	62-64-60	899.00	➧	899.00	899.00
Mitsubishi LS100 200MMX 32MB/2.1GB Network PC	1	13-08-22	199.00	➧	199.00	199.00
Osaris 4MB Handheld PC	3	22-51-44	164.95	➧	164.95	164.95
Panasonic CF – 25 P166MMX 4.0GB 32MB 10.4" TFT	3	62-18-43	499.00	➧	499.00	499.00
Panasonic CD-35 150MHz MMX 16MB/2GB 12.1 TFT Colour	3	88-01-03	449.00	➧	449.00	449.00
Samsung M6230TS PII233 3.2GB 32MB 12.1" TFT	3	54-06-94	299.00	➧	299.00	299.00
Sharp PC A100 Laptop without CD	3	13-77-91	520.00	➧	520.00	520.00
Sharp PCA150 Notebook P266MM/X64MB/4.3GB/11.3 TFT	3	48-87-18	999.00	➧	999.00	999.00
Siemens Scenic 510 PII336 128MB 6GB DVD WNT	3	17-95-36	799.00	➧	799.00	799.00
Siemens Scenic Mobile 750 PII266 6GB 64MB 13.3 inc	3	63-55-16	699.00	➧	699.00	699.00
Siemens Scenic Mobile 800 5GB 64MB expandable to 256MB	3	62-55-95	1499.00	➧	➧	1499.00
Toshiba Tecra 8000 WNT – G3 Clearance	3	19-36-96	900.00	➧	900.00	900.00
Toshiba Tecra 8000 (2143UK) Notebook	2	19-17-59	1080.00	➧	➧	1080.00

FOR MORE PRODUCTS SEE www.action.com

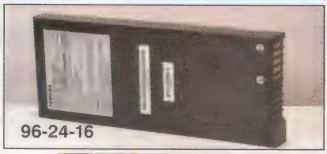
OTHER ITEMS

FOR NOTEBOOK PCs SEE PAGES 52–97
FOR TECHNICAL SERVICES SEE PAGES 23–39

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

COMPATIBLE BATTERY PACKS

Action's range of unbranded **battery packs** and **AC Adaptors** offer a high quality and cost effective alternative to original replacements.
All of the battery packs featured here meet or exceed the original manufacturer's specifications, giving the user maximum battery life.


96-24-16

DESCRIPTION	ORIGINAL PART NO	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
AST Power Exec. 325/425SL/SLC NiMH battery	230234-001	96-24-85	96.43	➧	104.99	101.84	
Compaq Contura 320/325/425 NiMH battery	139508-001	96-24-47	44.98	50.49	48.98	47.51	
Compaq LTE5000 Series NiMH battery	213511-001	88-79-86	78.84	88.49	85.84	83.26	
Compaq Aero 400/Armada 1100 series NiMH battery	190529-001	98-83-28	61.91	69.49	67.41	65.38	
Compaq Presario 1207-1681 Series NiMH Battery	293818-001	96-49-47	73.94	82.99	80.50	78.09	NEW
Dell NL25 NiMH battery	24611	97-80-15	88.64	99.49	96.51	93.61	
Dell Latitude LM Series Lithium-Ion Battery	9766682	96-70-21	103.78	➧	112.99	109.60	NEW
Dell Inspiron 3000 Series Lithium-Ion Battery	55506	96-22-63	103.78	➧	112.99	109.60	NEW
Digital HiNote NiMH battery	—	97-80-08	60.13	67.49	65.47	63.50	
IBM Thinkpad 370/750C/755CS NiMH battery	66G2820	96-25-33	146.95	➧	159.99	155.19	
TI Travelmate 4000M NiMH battery	9793371-1	96-23-99	71.27	79.99	77.59	75.26	
TI Extensa 450/455/460/510/515 NiMH battery	9803928-1	98-83-80	62.80	70.49	68.38	66.32	
Toshiba T4500/4550C/T4600/C NiMH battery	PA2413U	96-24-09	103.78	➧	112.99	109.60	
Toshiba T1900/T2400/4800/4900 series NiMH battery	PA2420U	96-24-16	70.38	78.99	76.62	74.32	
Toshiba T1000SE/XE/LE/T1200XE NiCad battery	PA8712U	96-24-23	34.40	35.99	35.63	35.27	
Toshiba T2100/2150 Sat 100CS NiMH battery	PA2437U	96-24-30	80.18	89.99	87.29	84.67	
Toshiba Sat Pro 4000 Series Lithium-Ion Battery	PA2487UR	96-12-46	137.77	➧	149.99	145.49	NEW

COMPATIBLE AC ADAPTORS

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
IBM TP365/380/390/550/560/600/601/770	64-18-20	39.66	41.49	41.08	40.66
Compaq Armada 1100/1500 Series/Contura Aero Series/LTE 5000 series	64-31-38	39.37	41.19	40.78	40.37
Toshiba Portege 300-620CT, Sat 220-440 Series, Tecra 520-740 CDT	64-53-89	39.66	41.49	41.08	40.66
Compaq Presario 1000/1200/1600 Series and 2940	64-95-08	39.18	40.99	40.58	40.17
Compaq Armada 4100 Series/Toshiba T2400/T1900/T4700/ T4800/T4900 Series	64-17-46	39.66	41.49	41.08	40.66
Compaq Contura 320/325/425	64-70-43	39.66	41.49	41.08	40.66
IBM TP350/355/360/370/380/700/750/755/760/790 Series	64-22-85	39.66	41.49	41.08	40.66

OTHER ITEMS

FOR NOTEBOOK PCs & ACCESSORIES SEE PAGES 67–77
FOR NOTEBOOK CARRY CASES SEE PAGES 94, 100–104

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

NOTEBOOK PC CARRY CASES

TARGUS

The perfect combination of top-loading convenience, notebook protection and carrying capacity all in a new light-weight design.

The **Top-Loading Notepac** represents the most affordable full-featured notebook case available. It is made of rugged 168OD ballistic nylon and weighs only 3lbs. The TL Notepac is suitable for all Notebook Computers.

Its features include an adjustable, padded notebook section, a file section and a zip down workstation. Other features include a detachable shoulder strap, heavy-duty steel fittings and self-correcting nylon zippers.

ALL TARGUS CASES LIFETIME WARRANTY

LIGHT-WEIGHT CONSTRUCTION



64-12-73



64-49-72

The **Top-Loading Air Notepac Plus** is the perfect case for the notebook user that demands great value and superior notebook protection. The notebook section, featuring the Targus Air Protective System, is designed to accommodate all notebook computers, including 15″ notebooks.

The Air Protection System combines vented air cushioning with high-density foam padding in a single chamber to offer superior protection for notebook PCs.

A full size expanding file section will hold work papers, files and documents. The zip-down workstation includes pockets for a mobile phone, a PDA, disks, pens and business cards.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Top Loading Notepac	64-49-72	24.94	27.99	27.15	26.34
Top Loading Notepac Plus with Air Protection System	64-12-73	33.85	37.99	36.85	35.74

OTHER ITEMS

FOR A FULL RANGE OF NOTEBOOK PCs SEE PAGES 67–77
FOR APPLE NOTEBOOKS SEE PAGES 128, 129

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NOTEBOOK PC CARRY CASES

TARGUS

Notepac Plus

'Best selling entry level nylon business case'

- Full padded computer section which accommodates all Notebook PCs.
- Zip down workstation.
- Internal pockets for CDs, documents, mobile phones, disks and PC Cards.
- Exterior accessory pocket.
- 3 section expanding file for additional paperwork.
- Overall dimensions: 40 × 30 × 13cm.

Also available. The Notepac Series
An entry level notebook carry case suitable for notebook and some papers in an external pocket.

The New Leather Notebook
is finished in full grain leather with Nickel fittings.

- 3 section expanding file for papers.
- Overall dimensions: 40.6 × 30.5 × 16.5cm.



97-38-76

ALL TARGUS CASES LIFETIME WARRANTY

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Notepac Plus – Black Polyester	97-38-76	30.28	33.99	32.97	31.98	✂
Air Notepac Plus – Black Polyester	54-02-54	35.63	39.99	38.79	37.63	✂
Notepac – Black Polyester	70-02-52	19.59	21.99	21.33	20.69	✂
Notepac – Grey Polyester	74-29-04	19.59	21.99	21.33	20.69	✂
Notepac – Hunter Green Polyester	67-83-08	19.59	21.99	21.33	20.69	✂
Notepac – Navy Polyester	74-28-70	19.59	21.99	21.33	20.69	✂
Leather Notebook – Black Leather	73-28-59	64.14	71.99	69.83	67.74	✂

Hard Shell Series

'Tough protection for notebooks'

- Semi-rigid moulded shell.
- Separate padded compartments for a notebook, printer and accessories.
- Padded with closed cell high density foam.
- Expanding accordion file section (HS Universal only).
- Pockets for documents, CDs and disks.
- Overall dimensions –
  HS Universal 36 × 27 × 21cm.
  HS Notebook 37 × 30 × 9.5cm.

Also available: Hard Shell Notebook (PC and power).



75-64-02

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Hard Shell Universal Case – PC & Printer – Black	75-64-02	57.46	64.49	62.56	60.68	✂
Hard Shell Notebook Case – PC only – Black	75-63-92	36.97	41.49	40.25	39.04	✂

OTHER ITEMS

FOR NOTEBOOK PCS & ACCESSORIES SEE PAGES 67–77
FOR APPLE NOTEBOOKS SEE PAGES 128, 129

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NOTEBOOK PC CARRY CASES

TARGUS
A TRADITION OF EXCELLENCE



88-04-02
55-86-24
88-04-26

BackPac Series

- Can be carried either as a rucksack or a briefcase.
- Designed to carry notebook, printer and accessories.
- Shoulder straps will tuck away when not being used.
- Folio File Section.
- Overall dimensions: 34 × 39.5 × 20cm.

Available in the following finishes:
Black Nylon, Navy Nylon, Hunter Green Nylon and Black Leather.

The **Targus Rolling Case** is a new ergonomic case on wheels. Designed for the frequent traveller, this case is FAA regulation size.

- Strong aluminium four-stage telescopic handle.
- Large capacity rear compartment designed to hold one of the four Targus System 2000 modules.
- Re-positionable SafePORT 4 way Air Cushion System provides superior computer support.
- Durable 840 denier nylon exterior with leather-like Koskin trims.
- Meets FAA requirements for 'carry-on' luggage.
- Reduces body stress and possible injury due to carrying excess weight on a daily basis.
- Full International Lifetime Replacement Warranty.



54-10-95

88-03-78



Shuttle Series

- Designed for all popular notebooks.
- Adjustable "piggybank" strap.
- Printer compatibility dimensions 35.6 × 25.4 × 8.9cm.
- Overall dimensions: 53.3 × 40.6 × 20.3cm.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
BackPac – Black Polyester	88-04-02	44.54	49.99	48.49	47.04
BackPac – Green Polyester	55-86-24	44.54	49.99	48.49	47.04
BackPac – Navy Polyester	88-04-26	44.54	49.99	48.49	47.04
BackPac – Leather	88-03-92	75.72	84.99	82.44	79.97
Deluxe BackPac – Black Canvas	12-09-62	51.67	57.99	56.25	54.56
Universal Rolling Case – Nylon	54-10-95	114.80	◗	124.99	121.24
Shuttle Case – Black Nylon	88-03-78	135.01	◗	146.99	142.58

OTHER ITEMS
FOR NOTEBOOK PCs & ACCESSORIES SEE PAGES 67–77
FOR APPLE NOTEBOOKS SEE PAGES 128, 129

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NOTEBOOK PC CARRY CASES

TARGUS

Targus Universal Cases – Simulated leather cases at great prices for your notebook and accessories.

Universal Series

- Separate padded compartments accommodating Notebook, Printer and related accessories.
- Expanding exterior accessory pocket.
- Pockets for documents, disks and PC cards.
- Expanding accordion file section.
- Overall dimensions: 36 × 31 × 25cm.

ALL TARGUS CASES LIFETIME WARRANTY

Also available: Air Universal
We also offer the Targus Air Universal Notebook.
As above but with an air section surrounding the Notebook with a layer of pressurised air.


92-92-84

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Universal Notebook – Black Koskin	92-92-84	47.21	52.99	51.40	49.86
Air Universal – Black Koskin	86-41-12	55.23	61.99	60.13	58.33

Universal Deluxe

'A case to hold your entire office'

- Full padded Notebook and Printer compartment.
- Full metal gusset for extra protection.
- 3 section accordion file for documents.
- Made from Koskin for extra durability.
- 3 CD pockets.
- Zip down workstation for mobile phone, PDA, PC cards and disks.
- Overall dimensions: 46 × 34 × 18cm.

ALL TARGUS CASES LIFETIME WARRANTY

Also available: Air Universal Deluxe.
As above, but with an air section surrounding the notebook with a layer of pressurised air for extra protection.


97-38-83

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Universal Deluxe – Black Koskin	97-38-83	75.72	84.99	82.44	79.97
Air Universal Deluxe – Black Koskin	54-02-61	85.52	95.99	93.11	90.32

Premier Series

'Classic attache styling in nylon or leather'

- Two fully padded compartments for notebook, printer and accessories or files.
- 2 section expanding file for additional paperwork.
- Zip-down workstation with mesh pocket.
- Overall dimensions: 44 × 36 × 18cm.

ALL TARGUS CASES LIFETIME WARRANTY


98-25-06

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Premier Notebook Deluxe – Black Leather	98-25-06	103.30		106.99	105.92
Premier Notebook – Black Leather	70-02-69	90.79	94.99	94.04	93.10
Premier Notebook – Black Nylon	75-63-61	48.55	54.49	52.86	51.27
Premier Nylon Deluxe	53-76-87	53.45	59.99	58.19	56.44

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

NOTEBOOK PC CARRY CASES

TARGUS
A TRADITION OF EXCELLENCE



85-98-42

Digital Camera Case

- Generic case for all digital cameras and accessories.
- Adjustable, foam padded dividers to create customised pockets.
- Also suitable for backup drives and external CD-ROM.
- Overall Dimensions: 30.5 × 26.5 × 11.5cm.

Pilot Case

- Simulated Leather Exterior.
- Aircraft hand luggage regulation size.
- External A4 sized pocket.
- Zip down workstation for office essentials.
- Variable sized and location top loading file section that can accommodate a notebook PC.
- Mobile Phone and Organiser pockets.
- Overall Dimensions: 43.2 × 33.0 × 17.8cm.



64-17-97



25-36-99

Business Traveller Leather

- High Quality Leather Finish.
- Large capacity overnight section.
- Aircraft hand luggage regulation size.
- External slip pocket.
- Zip down workstation for office essentials.
- Top loading file section for files.
- Dedicated Notebook/peripheral section.
- Dual-Pull, Self Healing Nylon Zippers.
- Overall Dimensions: 45.7 × 34.3 × 20.3cm.

Softbuck Range

- Fully protective notebook section.
- Fully equipped Zip down workstation.
- CD pockets as standard.
- Metal hardware on all metal moving fittings.
- Brown Softbuck finish.
- Overnight section for basic essentials (Overnighter only).



54-11-05

ALL TARGUS CASES LIFETIME WARRANTY

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Digital Camera Case – Nylon	85-98-42	32.96	36.99	35.88	34.80
Pilot Case – Koskin	64-17-97	80.18	89.99	87.29	84.67
Business Traveller – Leather	25-36-99	118.48	◗	128.99	125.12
Business Traveller – Nylon	17-31-13	75.72	84.99	82.44	79.97
Softbuck Notepac Plus – Simulated Suede Leather	54-11-05	41.87	46.99	45.58	44.21
Softbuck Overnigher – Simulated Suede Leather	54-11-12	59.68	66.99	64.98	63.03

OTHER ITEMS

FOR PCMCIA GUIDE SEE PAGE 108–109
FOR MULTIMEDIA PRODUCTS SEE PAGES 325–328

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NOTEBOOK PC CARRY CASES

Samsonite

MOBILE OFFICE CASE

- Rigid case with sturdy wheels and telescopic handle for easy transportation.
- Top and side carrying handles.
- Roomy clothing compartment.
- Top front compartment for notebooks with divider for mobile phones, pens, diskettes etc.
- Bottom front compartment for second notebook or printer or other accessories.
- Dimensions: W400 × D550 × H200mm.
- Weight: 3.98kg.
- Available in black nylon and black leather.



WORKSTATION

- Roomy interior padded compartment for laptop and other accessories with securing straps and removable foam divider with portfolio for pens, diskettes etc...
- Side folds down for easy access to notebook.
- Single divider external zippered pocket for files etc...
- Two zippered side compartments for accessories like cables, batteries or mobile phones.
- External pocket: W430 × D340 × H200mm.
- Weight: 1.60kg.
- Available in black nylon and black leather.



LAPTOP OVERNIGHT

- Laptop compartment with securing straps and removable foam divider with portfolio for pens, diskettes etc...
- Roomy clothing compartment with securing straps.
- 2-divider external zippered pocket for files etc...
- Lockable expanding front pocket for airline tickets, passport, glasses etc...
- Combination lock.
- Laptop compartment: W430 × D60 × H330mm.
- Clothing compartment: W430 × D80 × H330mm.
- Divider compartment: W430 × D40 × H330mm.
- Weight: 2.83kg.
- Available in black nylon and black leather.



DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Mobile Office Case – Black nylon	68-82-57	97.35	◗	105.99	102.81
Mobile Office Case – Black leather	64-31-70	146.03	◗	158.99	154.22
Workstation – Black nylon	68-82-88	46.77	52.49	50.92	49.39
Workstation – Black leather	68-82-95	114.34	◗	124.49	120.76
Laptop Overnight – Black nylon	68-82-64	66.37	74.49	72.26	70.09
Laptop Overnight – Black leather	68-82-71	142.82	◗	155.49	150.83

OTHER ITEMS

FOR PC SECURITY PRODUCTS SEE PAGES 510, 517
FOR MODEMS SEE PAGES 753, 760
FOR RAM UPGRADES SEE PAGES 192, 205

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

NOTEBOOK PC CARRY CASES

Samsonite



OFFICE CASE

- Roomy compartment with foam-padded divider for laptop and other accessories.
- External flap pocket holds printer and other accessories.
- Overall dimensions: W390 × D350 × H120mm.
- Weight: 1.28kg.
- Available in black nylon and black leather.



LAPTOP BRIEF

- Roomy interior padded compartment for laptop and other accessories.
- 2-divider document compartment.
- Zippered front exterior compartment with portfolio for pens, diskettes, glasses and business cards.
- Overall dimensions: W × 420 × D420 × H170mm.
- Weight: 1.93kg.
- Available in black nylon and black leather.



OFFICE CASE – DELUXE

- Roomy compartment with foam-padded divider and velcro straps to secure your laptop and other accessories.
- Foam divider with compartment for diskettes, CD-ROM, DVD, PCMCIA cards and business papers.
- Front compartment for papers and accessories.
- Back pocket with divider.
- Removable non-slip shoulder strap.
- Double layer foam for added shock protection.
- Overall dimensions W390 × D380 × H150mm.
- Available in black nylon and black leather.



EVA SYSTEM CASE

- Semi-rigid moulded shell.
- Compartment notebook with velcro securing straps and mesh portfolio for CD-ROM drive, battery, diskettes etc.
- Second compartment for printer and accessories or second notebook also with velcro securing straps.
- Dimensions: W380 × D340 × H200mm.
- Weight 1.33kg.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Office Case – Black Nylon	64-54-17	31.17	34.99	33.94	32.92
Office Case – Black Leather	64-95-26	88.20	99.00	96.03	93.15
Office Case Deluxe – Black Nylon	64-70-60	43.65	48.99	47.52	46.09
Office Case Deluxe – Black Leather	64-23-02	100.12	◗	109.00	105.73
Eva System Case – Black Nylon	68-53-44	38.30	42.99	41.70	40.45
Laptop Brief – Black Nylon	68-83-05	52.56	58.99	57.22	55.50
Laptop Brief – Black Leather	68-17-17	114.80	◗	124.99	121.24

OTHER ITEMS

FOR PC SECURITY PRODUCTS SEE PAGES 510–517
FOR INKJET PRINTERS SEE PAGES 374–394

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NOTEBOOK PC CARRY CASES

BELKIN

From Belkin's all leather Executive Carrying Case to the ultra-light Notebook Pack, Belkin have exactly the right case for protecting your valuable portable computer.

The **Note Pack** and **Note Pack Elite** are made of high quality black ballistic nylon with black hardware. The Elite has a greater capacity but both include inside pockets to store disks, business cards and pens.



64-08-61



64-39-15

The **Business Commuter** comes in black koskin or nylon with black hardware. It compromises of a front zippered pocket and an internal laptop compartment, which can also store accessories. An accordian style file folder organises important documents and 2 quick access exterior pockets help with storage.

ALL PRODUCTS CARRY A LIFETIME PRODUCT WARRANTY

The **Business Traveller** is made of luxurious high quality black genuine leather with black hardware. Its features include a front zippered pocket for zip and jaz drives and a back interior accordian style compartment.



64-36-98



64-98-48

The **Executive Case** carries a laptop PC, related accessories and business documents. Its fully adjustable padded divider separates the PC from power supply, cables and other peripheral devices. It also features a back interior accordian style compartment and a front exterior pocket.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Note Pack (Nylon)	64-12-74	17.81	19.99	19.39	18.81
Note Pack Elite (Nylon)	64-08-61	22.26	24.99	24.24	23.51
Business Commuter (Koskin)	64-39-15	35.63	39.99	38.79	37.63
Business Commuter (Nylon)	64-27-92	26.72	29.99	29.09	28.22
Business Traveller (Leather)	64-36-98	62.36	69.99	67.89	65.85
Executive Case (Leather)	64-98-48	101.03	▶	109.99	106.69

OTHER ITEMS

FOR NOTEBOOK PCs SEE PAGES 67–79
FOR APPLE NOTEBOOK PCs SEE PAGES 126–128

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶Save £££'s!
▶▶Check live stock
▶▶Track order status

Lower prices on-line at action.com

SOUND & SCSI PCMCIA CARDS

NEW MEDIA

New Media offer a range of multimedia products providing 16-bit stereo sound and SCSI connectivity. The **Bus Toaster** is a PCMCIA SCSI-II adaptor allowing connection of up to seven SCSI devices. It is supplied with CorelSCSI software for access to most SCSI adaptor devices plus easy to use Auto-Install software.

DESCRIPTION	TYPE	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Bus Toaster SCSI-II adaptor	II	96-08-03	124.54	➧	128.99	127.70

REMOVABLE MEDIA

IOMEGA



Iomega's Clik! product family is designed to work with handheld electronic devices such as digital cameras, mobile computing devices and handheld personal computers (HPCs) to provide unprecedented removable storage for these products through 40MB Clik! disks.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Clik Bundle (includes PC Card Adaptor, Clik drive, Parallel cable, and docking station)	70-70-21	179.95	➧	184.99	183.14
Clik PC Card Drive (PCMCIA)	70-22-63	116.72	➧	119.99	118.79
Clik Disk (4 pack)	23-30-90	31.49	32.95	32.62	32.29
Clik Disk (10 pack)	23-53-47	67.95	69.50	69.29	69.19

PCMCIA HARD DRIVES – TYPE III

PortableAdd-ons



For notebook users seeking additional hard disk capacity and who have a vacant type III PCMCIA slot, the **Portable Add-ons Disk** mobile PC card is an ideal solution. An ultra-slim hard disk drive with a capacity of 520MB or 1GB. It also provides far greater data security as the drives can be removed and they can also be password protected. They also have the advantage of being transferable between compatible notebook and desktop PCs.

DESCRIPTION	TYPE	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
520MB PCMCIA hard drive	III	98-77-38	238.23	➧	244.90	242.45
1GB PCMCIA hard drive	III	22-49-99	286.96	➧	294.99	292.04

OTHER ITEMS

FOR PCMCIA GUIDE SEE PAGE 108–110
FOR SPEAKERS SEE PAGES 327–328
FOR MULTIMEDIA PRODUCTS SEE PAGES 355, 326

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NOTEBOOK ACCESSORIES

AMACOM

The **Flipdisk** is a portable hard disk that simply plugs into the PCMCIA slot of your laptop or parallel port of your desktop to give you instant additional hard disk capacity of up to 24GB. The Flipdisk does away with the need of cumbersome interface cables by using its unique patented Flip PCMCIA card feature and is also powered directly from the PC.



69-47-60

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Flipdisk (4.0GB – 8.0GB)	69-47-60	278.20	➧	285.99	283.13
Flipdisk (6.4GB – 12.0GB)	55-70-58	317.11	➧	325.99	322.73
Flipdisk (10.0GB – 20.0GB) PCMCIA/Parallel Port	64-17-68	398.82	➧	409.99	405.89
Novadisk Backup Software	55-71-82	13.32	14.95	14.50	14.07
Amacom IDE to Parallel Cable	55-71-75	32.45	33.95	33.61	33.27



55-70-65

The **Amacom Baby Zip** drive is a portable ultra-slim PCMCIA based 100MB Zip drive. The Baby Zip can be easily carried in your pocket or briefcase and can be used anywhere, being powered directly from the computer. No need for bulky mains adaptors. Use it anywhere.

- Utilises standard Iomega ZIP media.
- Real Plug & Play (Windows 95).
- 16-bit data transfer rate up to 3.3MB/Sec.
- Extensive error recovery system.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Baby Zip	55-70-65	136.14	➧	139.95	138.55

PC CARD CD/DVD-ROM DRIVE

FREECOM COMPUTER PERIPHERALS



62-47-85

62-47-78

The **Freecom Traveller CD-ROM drive** is ideal for use on the road. With exceptional data transfer rates of up to 24x. It offers the highest level of flexibility, is only 20mm thick and weighs only 450g.
The **Traveller DVD** connects via the parallel, PC Card or USB ports with an optional cable to provide 2× DVD (20× CD-ROM). Very light, it is powered from its own AC adaptor or integrated rechargeable battery.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Freecom Traveller 24× CD-ROM drive	62-47-78	111.87	➧	115.00	113.85
Battery Pack for Traveller CD	54-11-81	22.23	24.95	24.20	23.48
Freecom Traveller DVD	62-47-85	181.86	➧	186.95	185.08
Freecom IQ Parallel Cable	62-47-61	22.89	23.95	23.71	23.47

OTHER ITEMS

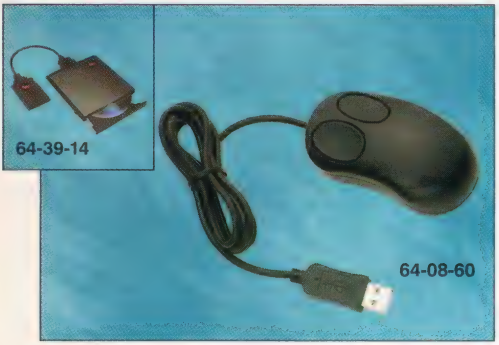
FOR HARD DRIVES SEE PAGES 227–242
FOR VIDEO CONFERENCING SEE PAGE 325
FOR MICE & POINTING DEVICES SEE PAGES 280–293

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

NOTEBOOK PC ACCESSORIES

TARGUS



The **USB Mobile Mini Mouse** is currently the world's smallest USB mouse and is truly portable. It weighs only 68g and has a small foot print of 8.4 × 4.1 × 2.5cm. Also includes 'Plug and Play' connection.

The **Universal 24× Slim-Line CD-ROM Drive** is perfect to load software, make multimedia presentations, access CD-ROM based information or simply play music and games.

- Compact and lightweight: Only 14.8oz!
- No power adapter necessary.
- Plug and Play simplicity
- Optional USB connector available

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
USB Mobile Mini Mouse	64-08-60	17.36	19.49	18.91	18.34
Universal 24× Slim Line CD-ROM Drive	64-39-14	144.81	♦	149.99	148.49

UNIVERSAL POWER ADAPTOR

AVRO PACIFIC



DC/AC Convertor provides mains power from your car cigarette lighter socket for your laptop computer or mobile phone, video camera, power tools or other small electrical appliances. Automatic cut out when your car battery voltage falls below 10.5 volts. Works in any vehicle, 230 volts.

DESCRIPTION	TYPE	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Avro Pacific DC/AC Convertor	–	45-00-83	38.69	39.99	39.79	39.49

SERIAL I/O ADAPTOR

SOCKET



The **Socket I/O PCMCIA adaptor** adds an industry standard DB-9 connector high speed serial port to any computer with a compatible type II slot. It is based on the internally-buffered 16550 UART, allowing users to run fast 28.8kb modems without wasting bandwidth re-sending missed characters. Socket's advanced PCMCIA interface technology gives users true platform independence by allowing the Serial I/O to run in either I/O or memory-mapped mode.

DESCRIPTION	TYPE	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
PCMCIA Serial I/O Adaptor	II	96-08-41	94.62	98.99	98.00	97.02
PCMCIA Socket Ruggedised Serial I/O Adaptor	II	89-65-13	114.88	♦	118.99	117.80
PCMCIA Socket Dual Serial I/O Adaptor	II	89-65-20	146.03	♦	158.99	154.22

OTHER ITEMS

FOR CONVERTOR GUIDE SEE PAGE 700

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PALM HANDHELD ORGANISERS

The Palm Computing® family of connected organisers is the world's most popular; they're small, smart and totally connected to your PC. With organiser software and desktop applications that work seamlessly together, it's easy to access all of the important information you need- anywhere, anytime. Discover the **Palm Vx** and the **Palm IIIe** or **IIIc**, the three latest additions to the Palm Computing family. Choose the one to suit your style and your life.



PALM V – see page 113
An Elegant Design for Busy People on the Move.

- Ultra-small, ultra-thin, annodised aluminium case.
- Long-life rechargeable lithium-ion battery, a full charge lasts up to 4 weeks on the road.
- Small in size, light in weight: 11.5cm × 7.7cm × 1cm; 115g.
- 2MB storage capacity
- New Palm V Modem- a GSM and analogue modem in one.



Palm Vx – see page 113
Top of the range Palm Organisers.

- Applications that synchronise with your desktop with one touch.
- Rechargeable lithium-ion batteries.
- Sharp LCD technology.
- Ultra-slim and ultra-light.
- HotSync technology.



PALM IIIe – see page 112 & 114
The affordable, easy-to-use handheld organiser.

- High contrast liquid crystal display (LCD).
- Longer battery life (2 AAA lasts 8-12 weeks).
- Infrared beaming capability.
- New line of accessories.
- Trendier, younger and transparent.
- 2MB storage capacity.



Palm IIIc – see pages 112 & 114
Enhanced viewing experience.

- Crystal clear colour display.
- 8MB of memory for add-on applications and data.
- Bundled with AvantGo! software.
- Rechargeable lithium-ion batteries.
- Instant Web access anytime, anywhere.

TURN TO PAGES 112–114 FOR FULL SPECIFICATIONS AND PRICING OF THESE PRODUCTS

OTHER ITEMS

FOR PALM ACCESSORIES SEE PAGE 115

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PALM HANDHELD ORGANISERS

The complete mobile office! For e-mail, remote synchronisation, text messaging (SMS) and Internet access with your Nokia or Ericsson phone.
Experience your own mobile office by combining TDK's GlobalPulse™ with Palm Organisers and your GSM phone.

GlobalPulse™ is a unique software modem that lets you connect your Palm Organiser via a cable connection. No matter where you are, stay connected and in touch.

MOBILE PHONE NOT INCLUDED



22-49-53



64-49-80

FREE SOFTWARE DOWNLOAD REQUIRED FOR USE WITH PALM Vx and 3c WHILE STOCKS LAST

KEY FEATURES:

- For Palm Organisers.
- Versions for Ericsson and Nokia.
- E-mail and text messaging.
- Web access and remote synchronisation.
- Simple cable connection.
- Upgrades to 28.8kbps GSM.
- Works on all GSM/PCN networks.
- Use your touch pad to manage your phone numbers.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Palm V (2MB)	22-49-53	181.97	◗	184.99	183.88
Palm Vx (8MB)	64-95-40	218.52	◗	219.95	219.40
Palm IIIe (2MB)	64-49-80	90.92	92.99	92.43	91.88
Palm IIIc (8MB)	64-32-00	246.62	◗	247.49	247.24
TDK GlobalPulse for Ericsson, with e-mail application	64-31-92	77.26	80.83	80.02	79.22
TDK GlobalPulse for Nokia, with e-mail application	64-18-73	81.48	85.25	84.40	83.55

OTHER ITEMS
FOR PALM ACCESSORIES SEE PAGE 115
FOR NOTEBOOK PCs SEE PAGES 50, 97

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PALM HANDHELD ORGANISERS

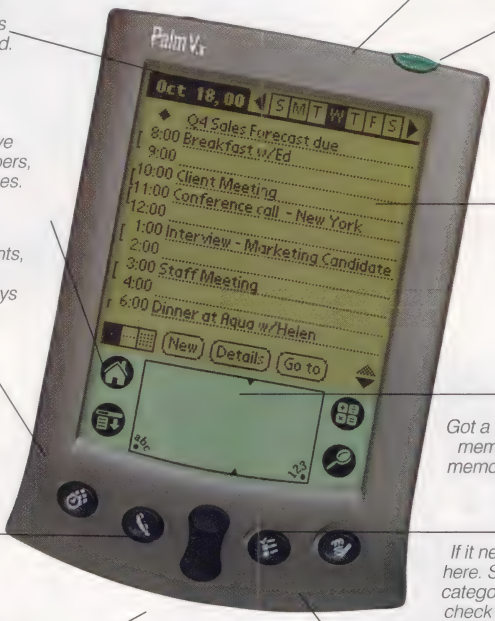
With its ultra-slim anodised aluminium casing and embossed leather screen cover, the **Palm V** and the **Palm Vx** organisers appeal to your sense of style. With calendar, address book, to do list, expense and e-mail applications that synchronise with your desktop computer with one touch plus long-life Lithium-Ion rechargeable batteries for up to a months operation on the road and sharp LCD technology, it's the perfect PC companion.

Ultra-Thin, Ultra-Light
Slip it into a pocket or purse. At just 114g and 10mm thick, you'll hardly know this organiser is there.

Infrared
"Beam" files and applications – even your business card – to other IR-enabled Palm Computing® platform organiser user. It's easy, fast and fun!

Razor-Sharp Screen
Advanced LCD screen is exceptionally easy to read.

Power Button
Here's where it all starts. Press the power button to turn your device on and off, or hold it for a few seconds to turn on the backlit screen.



Address Book
Store and instantly retrieve thousands of names, numbers, postal and e-mail addresses.

Date Book
All your important appointments, plus notes, alarms and reminders ensure you'll always be on time for meetings, deadlines and personal appointments.

Find
Locate anything on your organiser instantly. Just enter a name or word in the Find area and the information appears.

Memo Pad
Got a thought? Jot it down on the memo pad. You can print your memos easily when you return to your home base.

E-Mail
Download messages to your organiser, read them, write responses, then send replies when you synchronise using HotSync® technology.

To Do List
If it needs to get done, you put it here. Sort all the lists you make by category, priority or due date, then check off the items you complete.

HotSync® Technology
Back-up and exchange information with your desktop PC and popular PIMs at the touch of a button. You never have to input data twice and your data is always safe and up-to-date.

Rechargeable Battery
Drop it into the HotSync cradle to charge its advanced lithium-ion battery, then take it on the road for up to a month. Add an optional Palm V Travel Kit to recharge it anywhere.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Palm V (2MB)	22-49-53	181.97	◗	184.99	183.88	
Palm Vx (8MB)	64-95-40	218.52	◗	219.95	219.40	
Palm V/Vx Slim Leather Case	52-97-77	16.72	17.49	17.32	17.14	
Palm V/Vx Hard Case	64-31-25	23.85	24.95	24.70	24.45	✂
TDK GlobalPulse for Ericsson, with e-mail application	64-31-92	77.26	80.83	80.02	79.22	✂
TDK GlobalPulse for Nokia, with e-mail application	64-18-73	81.48	85.25	84.40	83.55	

OTHER ITEMS
FOR OUR APPLE SECTION SEE PAGES 126–135

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PALM HANDHELD ORGANISERS

Imagine having your daily schedule, important phone numbers, lists, meeting times and more in one organised place. It's easy and affordable with a **Palm IIIe Organiser.** At just 4.7" tall and a mere 6oz., it can go wherever you go! Say goodbye to your bulky paper planner. The Palm IIIe organiser is an easy-to-use, pocket-sized way to keep track of your busy life.

- Trendier, younger, transparent.
- Infrared beaming capability.
- High contrast Liquid Crystal Display.
- Longer battery life.



64-49-80

BUNDLED WITH ADVANTGO SOFTWARE

See www.action.com for more products



64-32-00

The award winning **Palm IIIc Organiser** is designed as a companion product to personal and business information on their desktops and remotely. Palm Computing organisers automatically synchronise their information with a personal computer locally or over a local or wide area network at the touch of a button. Their most distinguishing features include shirt-pocket size, instant response, an elegant graphical user interface and an innovative desktop docking cradle which facilitates two way.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Palm IIIe (2MB) Palm OS 3.3 Handheld PC	64-49-80	90.92	92.99	92.43	91.88
Palm IIIc (8MB) Palm OS 3.5 Handheld PC	64-32-00	246.62	◗	247.49	247.24

OTHER ITEMS

FOR PALM ACCESSORIES SEE PAGE 115
FOR TECHNICAL SERVICES SEE PAGES 23–39

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PALM ACCESSORIES

Description	Part No	Palm IIIe	Palm IIIc	Palm V/Vx	Cat No	Price (£) Ex. VAT
Palm V/Vx Executive Cover Pack	10408U			■	64-70-71	19.99
Palm V/Vx Hard Case	10410U			■	64-31-25	25.99
Palm V/Vx Stylus 3-pack	10411U			■	64-95-25	6.99
Palm V/Vx Travel Kit	10413U			■	64-34-69	29.49
Palm Glove Case – Black	3C10286U	■	■		64-23-05	21.37
Palm Glove Case – Olive	3C10287U	■	■		64-49-83	24.99
Palm Glove Case – Royal Blue	3C10288U	■	■		64-12-81	24.99
Palm Glove Case – Teal	3C10289U	■	■		64-08-70	24.99
Palm III Colour Shades	3C10306U	■			64-39-23	FREE Call
Palm Portable Keyboard for Palm III	3C10317U	■	■		64-28-02	55.99
Palm Modem Accessory	3C10320U	■	■		64-37-07	FREE Call
Palm Portable Keyboard Palm V/Vx	3C10439U			■	64-98-55	59.99
Palm IIIc Travel Recharger Kit	3C10600U		■		64-54-42	24.99
Palm IIIc Slim Leather Case	3C10601U		■		64-78-23	19.99
Palm IIIc Snap-on Leather Case	3C10602U		■		64-64-78	24.99
Palm IIIc Auto/Air Recharger Kit	3C10605U		■		64-78-24	21.99
Palm IIIc HotSync Cradle	3C10606E		■		64-78-25	39.99
HotSync Cable	10104U	■	■		64-91-72	15.99
Macintosh Serial Adaptor	10116U	■	■	■	64-15-22	4.99
Slim Leather Carrying Case	10121U	■			64-64-69	16.99
Deluxe Leather Carrying Case	10122U	■			64-82-34	44.99
Leather Belt Clip Case	10123U	■			64-62-59	19.99
Zippered Leather Case	10141U	■			64-54-41	18.75
PalmPoint Dual Action Stylus	10147U	■	■	■	64-95-41	30.00
PalmConnect USB Kit	3C90201U	■	■	■	64-18-88	24.00
PalmConnect Serial Kit	3C90202U	■	■	■	64-32-01	10.99
Palm Stylus 3-pack	10119U	■	■		64-70-70	8.99
Palm III Colour pack	10125U	■			64-34-71	17.99
Palm HotSync Cradle	10126U	■			64-82-31	19.99
Palm V/Vx Modem	10401E			■	64-62-56	114.99
Palm V/Vx HotSync Cradle	10403E			■	64-77-25	34.99
Palm V/Vx Slim Leather Carrying Case	10405U			■	52-97-77	16.49
Palm V/Vx Deluxe Leather Carrying Case	10406U			■	64-91-74	17.99
Palm V/Vx Leather Belt Clip Case	10407U			■	64-12-80	18.35





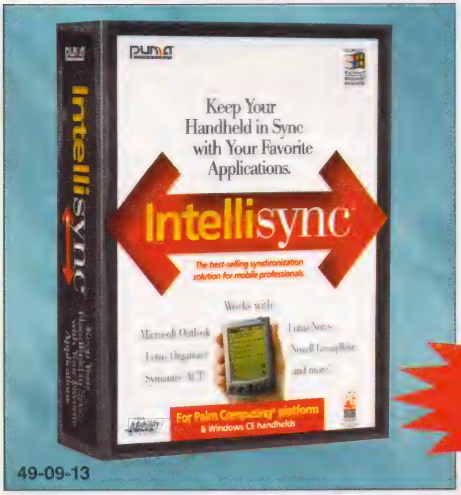
OTHER ITEMS

FOR NOTEBOOK PCs SEE PAGES 50–97

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW *item on this page*

PALM ACCESSORIES



49-09-13

Intellisync, the US number one accessory for Palm. Intellisync Software has direct, two-way synchronisation between PC and Palm Computing platform or Windows CE-compatible organisers. Intellisync automatically synchronises calendar, e-mail, contacts and tasks with personal information management and groupware applications.

- Easy one-step synchronisation.
- Works with popular PC applications.
- Optimised for Microsoft Outlook.
- Powerful filtering.
- Full conflict resolution.
- Complete customisation.

PALM Compatible Products



93-17-31

Whether its a must for business or just for fun, the **Kodak Palmpix** camera adds visual capture capability to your Palm™ handheld. Compact, lightweight and easy to use. Palmpix lets you frame, take, review and transfer pictures to your Palm™ through its serial connector. Review your images in colour on the Palm IIIc™ LCD, or view images in greyscale or other models. HotSync convenience lets you easily upload the image to a desktop or laptop computer where it can be accessed as a colour 24-bit VGA (640 × 480) picture. Once transferred to the host computer, the image can be saved.

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	Intellisync	49-09-13	44.73	46.80	46.33	45.87
NEW	Satellite Forms Standard Edition	49-39-56	575.17	▶	595.74	589.78
NEW	Satellite Forms Enterprise Edition	49-28-25	673.61	▶	697.70	690.72
NEW	Intellisync Gold 5 Users	49-37-24	304.02	▶	314.89	311.74
NEW	Intellisync Gold 10 Users	49-98-67	534.08	▶	553.18	547.65
NEW	Intellisync Anywhere 5 Users	49-55-96	1145.84	▶	▶	1174.95
NEW	Intellisync Anywhere 10 Users	49-76-92	1916.27	▶	▶	1964.95
NEW	Kodak PalmPix Camera	93-17-31	106.96	▶	109.95	108.85

OTHER ITEMS

FOR PALM PRODUCTS SEE PAGES 111–117

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶ Save £££'s!
▶▶ Check live stock
▶▶ Track order status

PALMTOP PCs

The **Psion** range of Palmtops is ideal for small business owners and mobile professionals. They include core functions like e-mail and the Internet plus word-processing and spreadsheets, but don't need the complex functionality and weight of a laptop computer. **A Psion palmtop is an ideal personal assistant**.

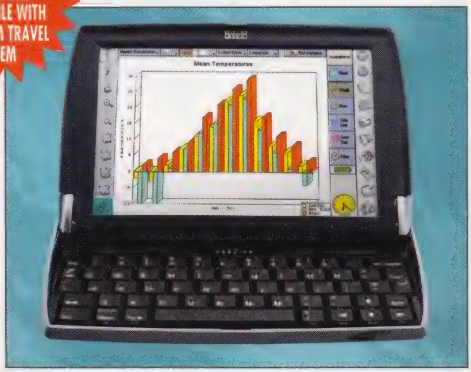


The Psion Revo

The Psion Revo offers all the organising functions you would expect from a palmtop. This stylish device slips easily into a shirt or jacket pocket allowing you to manage and communicate your information on the move.

The Psion Revo can use a variety of methods to connect, whether it is directly to the PC, through the Psion 56K Travel Modem or using existing data-enabled mobile phone – choose the one to suit you!

ALL PSION PALMTOPS FEATURED ARE COMPATIBLE WITH PSION GSM TRAVEL MODEM



The Series 7

Psion's latest mobile technology with the first large full-colour screen, bigger keyboard and PC card slot. It also boasts the fastest processor and improved communications. Cased in an attractive blue leather attaché style case, it is easy to carry, compact and lightweight. The Series 7 provides a range of office compatible applications that allow users to take just what they need with them and communicate and exchange information wherever they happen to be.



The Series 5mx

The Series 5mx combines mobile Internet and e-mail connectivity with a lightning fast processor. The machine features a windows-style interface, office software applications and runs on a 36MHz ARM710T RISC processor for faster communications. While the Series 5mx is independently powerful, it also connects seamlessly to the desktop making it simple for users to share files and synchronise data with a PC.



OTHER ITEMS

FOR PSION PALMTOPS SEE PAGES 118–120
FOR PSION ACCESSORIES SEE PAGES 117, 121

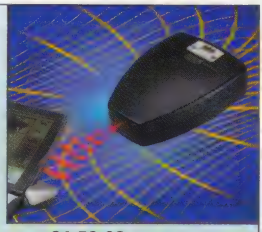
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PALMTOP PCs

PSION



64-31-32



64-53-93

The **Psion Series 7** features the latest release of the powerful EPOC™ operating system, which provides both desktop-like capabilities and seamless connectivity to PCs, mobile phones and the Internet. It is a stylish mobile computer in a sub-notebook format with a colour VGA screen, long battery life and a quality touch type keyboard. It includes all standard Series 5mx functionality with the added advantages of a colour screen, larger keyboard, improved communications and an attractive blue leather attaché style case.

- StrongARM 133MHz processor.
- 16MB internal memory, expandable up to 32MB.
- ROM-based – fully loaded 'out of the box'.
- Low power, touch sensitive, full VGA colour STN screen.
- Touch type keyboard.
- Pen navigation.
- Rechargeable Li-Ion batteries (8.5 hours typical battery life).
- Symbian EPOC32 R5 applications.
- Java™ Run Time Environment for EPOC™ included on PsiWin CD.
- PC card (Type I/II) and CF card (Type I + II) interfaces.
- Dimensions: 235 × 182 × 37mm.
- Weight: 1150g including battery pack.

EXCLUSIVE reseller of complete PSION range CALL *for details* 0800 333 333

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Psion Series 7 16MB	64-31-32	543.10	▶	545.00	544.46
ACCESSORIES					
Psion Travel Modem	64-53-93	144.81	▶	149.99	148.49
Psion Power Supply	64-18-17	23.89	24.99	24.74	24.49
Psion Battery	64-31-33	98.47	▶	101.99	100.97
Psion Docking Station	64-53-84	72.18	74.95	74.20	73.46
Psion DIMM Upgrade 16MB	64-95-05	81.23	84.99	84.14	83.30

OTHER ITEMS

FOR PSION PALMTOPS SEE PAGES 118–120
FOR PSION ACCESSORIES SEE PAGES 117, 118, 121

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶ Save £££'s!
▶▶ Check live stock
▶▶ Track order status

PALMTOP PCs

PSION



With the **Psion Revo** it has never been so easy to be organised. Revo contains all the organising functions you need – from appointments, to contacts, to e-mail – in a stylish device that's quick and easy to use. And because Revo connects to PCs and the Internet your information is always up to date.
The size and weight of a spectacles case, Revo packs an amazing number of features to allow the busy executive to always have access to the information they need, wherever they are. As Revo has an amazing keyboard, crystal clear LCD display and rechargeable batteries, you can manage your information and communicate on the move.

FEATURES:
- ARM 710 core running @ 36MHz
- 8MB RAM
- 480 × 160 pixel, 16 grey scale display with 3M™ reflective backing
- Touch screen digitiser and stylus
- 2 × 700mAh AAA NiMH batteries (Embedded)
- RS232 Serial Connector and infrared
- Dimensions: 157 × 79 × 18mm
- Weight: 200g

EXCLUSIVE reseller of complete PSION range CALL *for details* 0800 333 333

FOR PSION ACCESSORIES SEE PAGE 121

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Psion Revo	64-31-41	233.43	➧	234.95	234.36
ACCESSORIES					
Psion Travel Modem	64-53-93	144.81	➧	149.99	148.49
Psion Universal Power Adaptor	64-95-11	23.58	24.49	24.25	24.00

OTHER ITEMS
FOR TECHNICAL SERVICES SEE PAGES 23–39
FOR PSION ACCESSORIES SEE PAGE 121

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PALMTOP PCs

PSION



PSION OFFICE™
A Windows compatible suite of office software, including a fully-featured word processor (with spell checker and thesaurus), a sophisticated spreadsheet, drawing package, and optional presentation software, all fully compatible with desktop applications from Microsoft, Lotus and Corel

PSION ORGANISER™
Take charge of your life with Psion's world-famous time manager. View days, weeks, even years at a time. Keep track of thousands of names, addresses and phone numbers with ease. And synchronise all this information with your desktop agenda applications seamlessly.

PSION CONNECTIVITY™
Link the Psion Series 5mx to your PC and you can swap files within virtually all major Window applications effortlessly. Or just point and beam it at infrared enabled printers for hard copies.
Connect to a modem and the world is yours with built-in fax, email and web-browsing.



FEATURES:
- ARM710T 36MHz Processor.
- 16MB RAM.
- 640 × 240 pixels, 16 greyscale, backlit touch-sensitive screen.
- 2 × AA Alkaline batteries (one month typical life).
- RS232 Fast Serial Port and Infra-red.
- Dimensions: 170 × 90 × 23mm.
- Weight: 354g (with batteries).

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Psion Series 5mx 16MB	64-77-21	308.92	➧	310.00	309.69
ACCESSORIES					
Psion Travel Modem	64-53-93	144.81	➧	149.99	148.49
Targus Portfolio (CH300)	68-50-23	23.16	25.99	25.21	24.45
Belkin Handheld PDA Case, Soft Leather (Blue)	64-95-18	22.26	24.99	24.24	23.51
Belkin Handheld PDA Case, Nubuck Trendline (Matt Brown)	64-17-55	24.94	27.99	27.15	26.34

OTHER ITEMS
FOR PSION ACCESSORIES SEE PAGE 121

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PSION ACCESSORIES

PSION

DESCRIPTION	FOR USE WITH	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Docking Station	S7	64-53-84	72.18	74.95	74.20	73.46	✂
PC Card (PCMCIA) Adaptor	3c, 5/7/Revo	86-75-42	80.40	83.49	82.66	81.83	
PsiWin v2.3 (Cable & Software)	3mx, 3c, S5, Siena	64-18-21	40.44	41.99	41.57	41.15	
PsiWin replacement cable	3c, 3mix, 5	55-37-08	19.73	20.49	20.29	20.08	✂
SSD Drive inc. PSU	Siena	55-32-03	48.10	49.95	49.45	48.96	
*56K Travel Modem with GSM	Revo/5mx/S7	64-53-93	144.81	◗	149.99	148.49	
1MB Flash SSD	S3+, Siena	81-89-62	55.75	57.89	57.31	56.74	
DIMM Upgrade – 16MB	S7	64-95-05	81.23	84.99	84.14	83.30	✂
Rechargeable Battery – Li-ion	S7	64-31-33	98.47	◗	101.99	100.97	
Mains Adaptor	3, 3a, 3c	70-91-12	12.03	12.49	12.37	12.24	
Mains Adaptor	S5	68-03-27	15.81	16.95	16.50	15.95	
Mains Adaptor	S7	64-18-17	23.58	24.49	24.45	24.00	
Leather Case – Black	S5	68-03-34	23.77	24.99	24.50	24.00	
Leather Case Zip – Black	S5	64-54-38	56.33	58.49	57.91	57.33	
Pen Pack (3 Pens)	S5/S7	88-85-38	8.47	8.47	8.47	8.47	
Expense Tracker – 3.5"FDD	3a, 3c	55-34-54	15.88	16.49	16.33	16.16	✂
Berlitz Phrasebook – 3.5"FDD	S5/S7/Revo	68-03-41	32.01	33.49	33.16	32.82	✂
Collins Dictionary – Eng/French – CD	S5/S7/Revo	68-03-72	32.01	33.49	33.16	32.82	✂
Collins Dictionary – Eng/German – CD	S5/S7/Revo	68-03-89	32.25	33.49	33.16	32.82	
Route Planner Millennium	S5/S7/Revo	64-08-68	38.51	39.99	39.59	39.19	
Expense Manager – CD	S5/S7/Revo	68-03-96	39.10	39.99	39.75	39.51	✂
Financial Calculator – 3.5"FDD	S5/S7/Revo	68-04-06	38.22	39.99	39.59	39.19	✂
Games – Arcade – 3.5"FDD	S5/S7/Revo	55-34-23	24.51	25.45	25.20	24.94	
InSync Pro for Lotus Notes 4.5/4.5/5 – Single	S5/S7/Revo	26-49-63	64.51	67.49	66.82	66.15	
InSync Pro for Lotus Notes 4.5/4.5/5 – 10 User	S5/S7/Revo	64-28-00	555.14	◗	574.99	569.24	
InSync Pro for Lotus Notes 4.5/4.65 – 25 User	S5/S7/Revo	64-37-05	1240.48	◗	◗	1271.99	
InSync Pro for Lotus Notes 4.5/4.65 – 100 User	S5/S7/Revo	64-98-52	4397.89	◗	◗	4419.99	
Monopoly – 3.5"FDD	S5/S7/Revo	68-03-58	23.97	24.89	24.64	24.39	
Presentation Maker – 3.5"FDD	S5/S7/Revo	64-54-37	338.51	39.99	39.59	39.19	
Street Planner 99 – CD	S5/S7/Revo	64-78-18	38.51	39.99	39.59	39.19	
PALMTOP PC SOFTWARE							
Allegro Handwriting Recognition	Series 5	55-70-34	35.54	39.89	38.69	37.53	

*SSDs can only be used on Siena in conjunction with SSD Drive. Please note: InSync requires Connectivity 2.3 installed. ***CE HPC:** Windows CE for Handheld PCs **CE PPC:** Windows CE for Palmsize PCs.

OTHER ITEMS *FOR PALMTOP PC CARRY CASES SEE PAGE 130*

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

HANDHELD PCs

COMPAQ



64-53-97

The **Aero 2100 series** handheld PCs offer one of the world's most advanced colour TFT screens. Dramatically improved resolution and a large viewing area deliver consistently crisp, clear and remarkably legible images. Reflective technology lets you work in all environments whether pitch dark or bright sunlight.

The high-resolution colour TFT screen with reflective technology and upgradable Microsoft Windows CE operating system create the ultimate combination of screen performance and seamless PC synchronisation. Add to that a 10-hour rechargeable battery, car adaptor, touch-sensitive display, one-handed operability, three alarm settings, secure stylus and customisable application launch buttons and you've got the juggernaut of Palm-size PCs in the pocket of your shirt.

BENEFITS:

- Colour TFT (Thin-film Transistor) Active Matrix Display.
- Rocker-Switch/Jog Wheel.
- The Aero features a CompactFlash expansion slot.
- Rechargeable Lithium-ion battery supplies up to 6-10 hours of typical use.

For those who don't feel they require colour, then the **Aero 1520** offers a slimmer (1.3cm thin), lighter (143g) alternative with extended battery and a great non-glare, grey-scale display screen. Powered by Microsoft Windows CE, this handheld offers enough power for you to access your information while you are on the move.

BENEFITS:

- Ultra-thin Palm-size PC, the thinnest Windows CE product available.
- Convenient rechargeable battery provides 14 hours of continuous use.
- The organiser that is also a Personal Audio System.
- Customise or expand Aero 1520 with CompactFlash Cards.
- The easiest Palm-size to use.

FOR TECHNICAL SERVICES SEE PAGES 23–39

DESCRIPTION	DISPLAY	RAM	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Compaq Aero 1520	Mono	16MB	64-53-97	213.61	◗	215.00	214.46
Compaq Aero 2130	Colour	16MB	22-50-18	307.00	◗	309.00	308.23
✂ Compaq Aero 2160	Colour	24MB	64-95-15	274.45	◗	279.00	277.33
ACCESSORIES		**PART NO**	**CAT NO**				
NEW Executive Portfolio Case		402148-B21	29-17-87	45.25	46.99	46.52	46.05
NEW Cradle (Aero 1520)		136183-031	29-31-03	33.70	34.99	34.64	34.29
NEW Deluxe Cradle with Battery Charge (Aero 2100)		402141-031	29-53-64	54.88	56.99	56.42	55.86
NEW Memory Compact Flash 20MB (all Aeros)		104703-001	29-94-77	64.51	66.99	66.32	65.66
NEW 56K Compact Flash Card Modem (all Aeros)		148908-031	26-17-76	108.12	◗	111.99	110.87

OTHER ITEMS
FOR COMPAQ NOTEBOOKS SEE PAGES 61–66
FOR COMPAQ DESKTOPS SEE PAGES 153–163

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

HANDHELD PCs & ACCESSORIES

Jornada 680/690

Perfect mobile solution for e-mail and Web browsing with its preloaded Microsoft Pocket Inbox and Pocket Internet Explorer, Word, Excel, PowerPoint and Access. It also includes an enhanced version of Microsoft Pocket Outlook. HP's special viewer software lets you view your contact and schedule information at a glance. Quickly capture information and convert it into contact, e-mail and appointment records automatically with HP's quick pad applications.

- 133MHz Hitachi SH3 processors.
- 16MB SDRAM + 16MB Burst Mode Rom.
- 6.5" CSTN display (640 × 240@256).
- One PC Card Type II slot and one CompactFlash Type I Card slot.
- Lasts up to 7 hours without recharging.
- Touch screen.
- Dimensions: 189 × 95 × 34mm.
- Weight: 510g.



12-21-31

UPGRADE YOUR WARRANTY
SEE PAGES 424-425
HP SUPPORTPACK


64-98-65

Designed for Microsoft Windows CE

Jornada 540 Series

It's slim, stylish and with a grey silk alloy design. Its got full on-line capabilities. Access e-mail, surf the web and with a CompactFlash expansion slot you can easily add communication accessories for wireless capabilities. A WAP browser is also available. It's crammed full of functionality – Pocket Outlook, Pocket Excel, Pocket Word and quick, easy synchronisation using USB or serial ports. It's fun – enjoy MP3 and WMA music in stereo sound, listen to audio books and read e-books, create digital photo albums or play a round of golf!

- Hitachi SH3, 133MHz processor.
- Backlit, 240 × 320 × 65,536 colour display.
- Touch display, Mic, Ex. keyboard input devices.
- 16MB (545)/32MB (548) RAM, 16MB ROM memory.
- One CompactFlash Type 1 Slot.
- Stereo headphone, IR, Serial, USB Client, AC-in ports.
- Dimensions: 130 × 78 × 15.8mm.
- Weight: 260g with battery.
- Rechargeable Li-Ion internal battery (8 hours), universal AC.

Please see www.action.com for more accessories.

DESCRIPTION		CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Jornada 680 (F1262A)		12-21-31	465.96	▶	469.00	467.83	
Jornada 690 (F1813A)		12-30-86	536.50	▶	540.00	538.65	
Jornada 545 (F1824A)		64-98-65	298.95	▶	300.00	299.70	NEW
Jornada 548 (F1825A)		64-78-59	352.70	▶	355.00	354.11	NEW
ACCESSORIES	**FOR USE WITH**						
Docking Station	Jornada 680	64-36-90	25.80	26.99	26.72	26.45	
16MB Memory Upgrade	Jornada 680	64-98-41	94.63	99.00	98.01	97.03	
Executive Leather Carry Case	Jornada 540 Series	64-64-84	26.72	29.99	29.09	28.22	NEW
USB Cable	Jornada 540 Series	64-78-61	17.81	19.99	19.39	18.81	NEW
Serial Cable	Jornada 540 Series	64-78-60	26.72	29.99	29.09	28.22	NEW

OTHER ITEMS

FOR CARRY CASES SEE PAGE 120

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

HANDHELD PCs

LG Electronics

COMPAQ



64-94-97

The **Compaq Aero 8000 Handheld PC Pro** is designed for businesses with mobile workforces, such as field sales and service. It offers all day battery life, great bright large screen, and the ability to run Outlook, Work, Excel and PowerPoint files through Pocket Office. Its built in 56K modem allows web surging, remote client and email on the move.

The 'Instant On' feature offers fast computing for even the most impatient busy professional. This is ideal for the business professional, with a desktop PC who travels occasionally, needs access to e-mail and windows documents and delivers PowerPoint presentations.

- Exceptional mobility.
- Easy and comfortable to use.
- Robust enterprise solutions from more than 20 leading software vendors.
- Low total cost of ownership.

The **Colour Handheld PC** from **LG Electronics** is the ideal mobile e-mail device. In addition to the built-in 56Kbps modem, the LG Colour Handheld PC features a sleek, curvilinear design that's quite practical too.
The deceptively large battery chamber can be rolled down to reveal a first in handheld PCs, standard-sized VGA-out and parallel ports.
It comes with a 16MB RAM (upgradeable to 32MB) plus a 16MB upgradable ROM, which means users can easily upgrade to new versions of Windows CE.

- Large keyboard for real touch-typing.
- Wide 8⅛" (half VGA) colour screen.
- 16MB RAM (upgradeable to 32MB).
- 16MB ROM preloaded with additional software.
- 100MHz CPU.
- Built-in 56K (V90) modem.
- PCMCIA type II slot.
- Triple cell Li-ion rechargeable battery pack.
- Enhanced internet and e-mail (attached file viewer).



54-01-51

WHEN ORDERING A 16MB UPGRADE ... YOU NEED TO CHECK THE TA NUMBER ON THE BOTTOM OF YOUR PHENOM.

DESCRIPTION	DISPLAY	RAM	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Phenom Handheld PC Express	Colour	16MB	54-01-51	446.09	➧	449.00	447.88
Compaq Aero 8000	Colour	16MB	64-94-97	642.75	➧	645.00	644.36
Compaq MP1600 Microportable Projector	—	—	52-99-72	3228.80	➧	➧	3245.00
ACCESSORIES							
16MB Upgrade for LG Phenom **(TA number 011/012)**			64-27-85	65.94	68.99	68.30	67.62
Targus Leather Double Wallet **(CH300)**			68-50-23	23.16	25.99	25.21	24.45
Targus Leather Portfolio Case **(CH600)**			68-50-54	49.69	51.99	51.47	50.96

OTHER ITEMS

FOR TECHNICAL SERVICES SEE PAGES 23–39

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ELECTRONIC DIARIES

Xircom...

Just six buttons control all of the features of the **REX PRO:**

Contacts – Easy access to every important phone number and address.

Calendar – Never miss an appointment again!

To-Do/Call List – Stay organised and get the job done.

Memos – Create and edit information for on the go productivity.

Clock with alarm – Stay on time at home or away.

Enter and Edit Data – Easily update schedules, revise contact information or add to-do items.



The **REX PRO 5** is no bigger than the size of a credit card and weighs only 1.4 ounces but is a major technology breakthrough, combining the ultimate in personal information management software with massive advancement in portable computing.

It's able to update schedules, revise contact information or add to-do list items easily with the data entry feature. The 6-button interface makes it simple to enter or edit your data and two-way data exchange keeps your REX PRO and software sync.

Use your Desktop or Notebook PC to enter and organise data, synchronise it with REX PRO and then view it anytime, anywhere!

The REX PRO Docking Station enables you to easily sync with your PC organiser data through any serial port. Simple, button-free operation that will keep you connected with your data!

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
REX PRO – 512KB	54-04-43	63.56	65.00	64.61	64.22
REX PRO – 512KB+Docking Station	54-04-50	72.23	75.00	74.25	73.51

OTHER ITEMS

FOR CD-ROM DRIVES SEE PAGES 249–255

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

APPLE MACINTOSH INDEX

Apple



True to form, Apple have a terrific array of new technology in this catalogue, including the fastest processor in the land? The G4 is here!

In the pages that follow we feature products from Apple's portable, mini-tower and server ranges, with plenty of new models, practically bursting with features and specifications including DVD compatibility.



The iMac has created quite an impact on the market-place. It is a compact, stylish, ready-to-go all-in-one computer and monitor solution with great appeal. Designed for internet surfers of all ages and available in 6 exciting colours, iMac re-defines 'Plug & Play' with USB connectivity.

We also feature a range of peripheral products, inkjet and laser printers, monitors including ColorSync technology and the smart, flat panel LCD Studio Display, keyboards, mice, consumables and other accessories.



INDEX

iMac 127
iBook 128
Desktop Computer Accessories 134
iMac Accessories 130
Laser Printers 133
Mini-Tower Computers 131
Monitors 132
PowerBook 129
Portable Computer Accessories 130
Printer Consumables 135
Software 135

Apple product specifications are likely to change so please always call for the latest information

FREEphone 0800 333 333 or FREEfax 0800 10 20 30

OTHER ITEMS

FOR GUIDE TO SOFTWARE SEE PAGE 788
FOR GUIDE TO DIGITAL CAMERAS SEE PAGE 329

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ALL-IN-ONE COMPUTERS

Apple

Launched just over a year ago, the **iMac** was instantly recognised as the coolest internet-ready computer. Now redesigned inside and out and available in three new models: iMac, iMac DV, and iMac DV Special Edition, the iMac is reborn and cooler than ever.

If you want a low-cost, fast system that is internet-ready and loaded with software, these little machines come with a blazing-fast G3 Processor, with 512K backside level 2 cache. They also include 2D/3D graphics acceleration which will give you all the power you need for video or 3D rendering.

DV-model iMacs include DVD and are loaded with Apple's easy-to-use iMovie software for when you want to get started in making movies. Transferring digital video is a snap, using the FireWire cable to connect your DV camcorder to your iMac (see page 584 for FireWire cables).

The iMac is an All-In-One system, which means you get the computer and a 15" monitor all in one unit... just plug in the power, keyboard and mouse and you're ready to go. You also get built-in surround sound speakers, a 56K modem, and 10/100Base-T Ethernet for fast and easy connection to the internet from a network.

With the USB ports, the iMac is redefining "Plug-and-Play". You won't even have to shut down and restart your computer to connect and disconnect your USB devices.



63-49-86

Includes Apple USB Keyboard, Apple USB Mouse, Mac OS 9, and many software applications including:

- AppleWorks (formerly ClarisWorks)
- Microsoft Internet Explorer
- Netscape Communicator
- iMovie
- Adobe PageMill

Model	iMac 350	iMac-DV400/Special Edition
Processor	333MHz PowerPC G3	400MHz PowerPC G3
RAM	64MB up to 256MB SDRAM (expandable to 512MB)	
Hard drive	6GB IDE	10 or 13GB ATA
Floppy drive	Optional (see page 137)	
CD-ROM drive	24x max	Not included
DVD-ROM drive	No	4×DVD (24×CD)
Graphics accelerator	ATI Rage 128VR 2D/3D with 8MB SDRAM	
Display	Built-in 15" (13.3" viewable image size)	
Keyboard	Apple USB keyboard and mouse	
Interfaces	2×USB, 10/100Base-Tx Ethernet, 56k Modem, 2×FireWire	
Operating system	Mac OS 9	
Dimension (W×D×H)	381×381×435mm	
Weight	15.8kg	
Warranty	12 months	

DESCRIPTION	RAM	HDD	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
iMac-CD 350 Blueberry	64MB	6GB	63-18-53	667.65	➧	669.99	669.32
iMac-DV 400 Blueberry	64MB	10GB	63-23-09	827.09	➧	829.99	829.16
iMac-DV 400 Grape	64MB	10GB	63-31-63	827.09	➧	829.99	829.16
iMac-DV 400 Lime	64MB	10GB	63-95-31	827.09	➧	829.99	829.16
iMac-DV 400 Strawberry	64MB	10GB	63-18-54	837.05	➧	839.99	839.15
iMac-DV 400 Tangerine	64MB	10GB	63-70-66	827.09	➧	829.99	829.16
iMac-DV 400 Graphite Special Edition	128MB	13GB	63-49-86	992.51	➧	995.99	994.99

OTHER ITEMS FOR IMAC ACCESSORIES SEE PAGE 130

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ALL-IN-ONE COMPUTERS

Apple



SOFTWARE INCLUDED with iBook:

- Mac OS 9.0 (inc Sherlock).
- AppleWorks.
- Palm Desktop Organiser.
- Internet Explorer.
- Microsoft Outlook Express.
- Netscape Communicator.
- AOL 4.0.
- Earthlink TotalAccess.
- EdView Internet Safety Kit Family edition.
- The World Book Encyclopaedia.
- Adobe Acrobat Reader.
- FAXstf.
- Bugdom.
- Nanosaur.
- Quick Time 4.

Why settle for stay-at-home computing when you can get the iMac to go? The **iBook** is the notebook computer with easy access to the internet, a choice of three colours, tons of free software and a personality. Smoothly rounded edges that fit the curves of your hands, pleasing textures, a brilliant 12.1" high resolution active-matrix display, and a convenient carrying handle that folds away out of sight. Plus with a 56K modem, 10/100Base-T Ethernet port, Mac OS 9.0 and all the right software already installed, it's as internet ready as a notebook computer can be.

Model	iBook
Processor	300MHz or 366MHz PowerPC G3
RAM	64MB SDRAM (expandable to 320MB)
Hard disk	6GB ATA
CD-ROM drive	24x max
Display	12.1" SVGA TFT
Graphics controller	ATI Rage Mobility, 2x AGP, 4MB SDRAM
Sound	Single mono speaker
Modem	Internal 56K V.90 standard
Ports	1x USB, 10/100Base-T Ethernet (RJ-45), modem, power adaptor
Keyboard	Full size with Apple trackpad
Battery	Lithium-Ion
Operating system	Mac OS 9.0
Dimensions (W × D × H)	344 × 520 × 294mm
Weight	3kg
Warranty	12 months



63-95-24

Airport is a nifty new technology that gives you the freedom to access the Internet with your iBook from absolutely anywhere in your home, office or hotel room. You'll need an iBook of course, an AirPort PC Card and the AirPort Base Station to be able to access the Internet with a wireless connection up to 150 feet away from the phone socket, at up to 11 megabits per second. If you have a broadband connection, like a cable or DSL line, you can wirelessly surf as fast as your connection will let you.
The Airport PC Card will take you seconds to set up and wirelessly interacts with the AirPort Base Station, which is similar to the base of a cordless telephone and includes a 56K modem for your phone line, or an Ethernet port if you have a cable modem, DSL modem or access to an Ethernet network.

DESCRIPTION	DISPLAY	RAM	HDD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW iBook 300MHz Blueberry	12.1" TFT	64MB	6GB	64-54-57	1046.38	▶	▶	1049.00
NEW iBook 300MHz Tangerine	12.1" TFT	64MB	6GB	64-98-59	1046.38	▶	▶	1049.00
NEW iBook 366MHz Graphite	12.1" TFT	64MB	6GB	64-78-39	1185.25	▶	▶	1190.00
Airport Base Station	–	–	–	63-18-35	203.29	▶	204.00	203.80
Airport Card	–	–	–	63-95-24	67.39	68.00	67.83	67.66

OTHER ITEMS
FOR IMAC ACCESSORIES SEE PAGE 130
FOR GUIDE TO DIGITAL CAMERAS SEE PAGE 329

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NOTEBOOK COMPUTERS – WITH CD-ROM

Apple

The **Apple™ Macintosh™ PowerBook™ G3** Series sets new standards for portable design and performance.

Built around the high performance PowerPC G3 processor, these notebook systems provide the power to handle even the most demanding tasks. They incorporate impressive multimedia and communication capabilities including a high-speed CD-ROM drive, DVD-ROM (on 500MHz model), S-video output for connecting to a TV, built-in Ethernet and a fast K56flex modem which let you tap into your organisational network or the Internet.

Slim, Stunning, Superfast. With PowerPC G3 processors running at up to 500MHz, and an even thinner and lighter design, the new Macintosh PowerBook G3 Series gives you the ultimate combination of performance and mobility, and with dual-battery capabilities, you can use your PowerBook G3 for longer than ever – up to 10 hours at a time.



63-37-12

Model	PowerBook G3 400	PowerBook G3 500
Processor	PowerPC G3 (400MHz)	PowerPC G3 (500MHz)
Cache	512MB	
RAM	64MB	128MB
Hard drive	6GB	12GB
Floppy drive	No	
CD/DVD-ROM drive	20 × speed CD	6 × DVD
Sound System	16-bit CD quality stereo (2 stereo speakers, internal microphone)	
Display	14.1″ SVGA TFT LCD	
Graphics controller	ATI Rage LT Pro with 8MB SDRAM	
Expansion slots	1 × Type I or II card, zoom video PC Card	
Ports	2 × USB, RJ11, IrDA S-video, VGA	
Modem	K56flex	
Keyboard	77 keys including 12 function keys, 4 arrow keys, embedded keypad and Apple Trackpad	
Operating system	MAC OS 9.0	
Battery	Li-ion – up to 10 hours with two batteries	
Dimensions (W × D × H)	264 × 43 × 323mm	
Weight	2.6kg	
Warranty	12 months	

FOR NOTEBOOK ACCESSORIES SEE PAGE 130

DESCRIPTION	DISPLAY	RAM	HDD	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
PowerBook G3 400	14.1″ TFT	64MB	6GB	64-28-06	1642.41	➧	➧	1649.00	NEW
PowerBook G3 500	14.1″ TFT	128MB	12GB	64-37-12	2275.58	➧	➧	2279.00	NEW

OTHER ITEMS

FOR POWERBOOK ACCESSORIES SEE PAGE 130
FOR TECHNICAL SERVICES SEE PAGES 23–39
FOR CARRY CASES SEE PAGES 100–107

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

USB ACCESSORIES AND MEMORY

The **Belkin BusStation** is the first USB system designed to adapt to the way you work. The BusStation's innovative, patented modular design gives you the ability to create and customise your own USB environment. The BusStation is "modular"! This makes the Belkin innovative patented design uniquely "customisable". Simply slide the USB port module out of the BusStation and you have room to snap in one of the many other Belkin USB modules, including SCSI ports, Ethernet ports and serial ports for PCs and Macintosh computers. You can even remove a single USB port from the BusStation and replace it with a 4-port hub, adding more downstream USB ports!

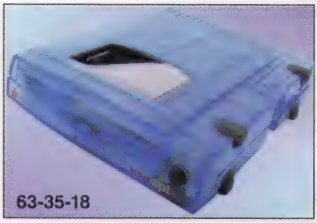

49-76-85


63-60-27

Pro Series USB Cables for iMac®
The new Apple iMac® has been the talk of the computer industry due to its refreshing design and overall look. Apple has also designed the iMac® to be easy to use by including industry standard USB ports. In response to these innovative features Belkin has designed a line of corresponding Pro Series USB Cables. These cables allow the iMac® user to take advantage of USB devices while using an attractive transparent cable.


63-60-58

USB Parallel Printer Adaptor for iMac®
The USB Parallel Printer Adaptor provides the easiest way to use multiple parallel printers with your iMac®. Two, three or more printers can be used with a single iMac®, while still communicating with a parallel scanner, camera, or storage device through the computer's parallel port.


63-35-18

The **Iomega Zip drive USB for Mac** benefits from all the advantages of a USB interface: easy set-up, almost unlimited expandability, fast transfer rate and hot swap capability.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Belkin iMac BusStation – graphite	49-76-85	62.95	63.25	63.20	63.15
Belkin iMac USB Parallel port adaptor – clear blue	63-60-58	35.63	39.99	38.79	37.63
Belkin USB A-B cable – clear blue, 1.8m	63-60-27	11.98	13.95	13.39	12.86
Belkin USB A-A extension cable – clear blue, 3m	63-60-34	12.83	14.95	14.35	13.78
Belkin USB classic mouse – clear blue	63-76-76	8.86	9.95	9.65	9.36
Iomega Zip drive (external) for iMac – clear blue	63-35-18	77.00	79.95	79.15	78.36
Kingston 64MB memory upgrade for iMac	15-44-13	60.58	68.00	65.96	63.98
Kingston 128MB memory upgrade for iMac	14-37-09	123.08	◗	134.00	129.98
Kingston 64MB upgrade for G3 PowerBook	25-63-97	120.32	◗	131.00	127.07
Lith-ion Battery for PowerBook G3	69-74-06	144.93	◗	148.99	147.50
Lith-ion Battery for PowerBook G3 333+400MHz Models	63-95-00	93.41	97.00	96.03	95.07
AC Adaptor for PowerBook G3	63-70-41	50.08	52.00	51.48	50.97
TDK DF5660 56K Global Freedom PC Card modem for Mac (V.90+Fax)	64-13-73	148.98	◗	149.95	149.58

OTHER ITEMS
FOR APPLE MONITORS SEE PAGE 129
FOR MODEM GUIDE SEE PAGES 132

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MINI-TOWER COMPUTERS

Apple

Designed by **Apple** for use by creative professionals who use their computers as the pivotal tool of their trade. The **Power Mac G4's** blazing fast speed and convention crushing design picks up where the G3 left off.
This Power Mac is so powerful that its speed is measured in gigaflops, or billions of floating-point operations per second, just like supercomputers.

The G4 processor is the heart of the system with its Velocity Engine moving multimedia and vector data at superfast speeds. It processes data in 128-bit chunks, instead of the 32 or 64-bit chunks used in most processors.

System performance has been further enhanced by the use of an all-new superfast system bus and 1MB of backside cache. With a talent for expansion, the new G4 can accommodate more than 100GB of hard disk storage and up to 1.5GB of SDRAM.

It uses FireWire and USB ports for easy connection to major peripherals and can utilise Apple's new AirPort high-speed wireless local area network option, which gives you the freedom to surf the Internet or your network without cables, additional phone lines or complicated networking hardware. The 450 and 500MHz configurations are also supplied with a built-in Zip drive and DVD as standard.



Model	Power Macintosh G4 Minitower		
Processor	400MHz PowerPC G4	450MHz PowerPC G4	500MHz PowerPC G4
RAM	64MB	128MB	256MB
Cache	1MB at 200MHz	1MB at 225MHz	1MB at 250MHz
Hard disk	10GB Ultra ATA/66	20GB Ultra ATA/66	27GB Ultra ATA/66
CD-ROM drive	Optional		
DVD-ROM/RAM drive	5x DVD-ROM		
Zip drive	Optional	Yes	
Graphics controller	ATI Rage 128 with 16MB SDRAM		
Sound card	16-bit and built-in speaker		
Expansion slots	3 × PCI slots available		
Drive Bays	3 × 3½"		
Ports	2 × USB, ADB, 10/100BASE-T Ethernet (RJ-45), 2 × Firewire (400MHz), 3 × Firewire (450 and 500MHz)		
Keyboard	Apple USB keyboard and mouse		
Operating system	Mac OS 9		
Dimensions (W × D × H)	226 × 467 × 432mm		
Weight	13.6kg		
Warranty	12 months limited		

DESCRIPTION	RAM	HARD DISK	CACHE	OPTICAL	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Power Mac G4 400	64MB	10GB	1MB	DVD	64-54-54	1061.73	➧	➧	1065.99	NEW
Power Mac G4 450	128MB	20GB	1MB	DVD+ZIP	64-95-50	1640.41	➧	➧	1646.99	NEW
Power Mac G4 500	256MB	27GB	1MB	DVD+ZIP	64-19-13	2295.55	➧	➧	2299.00	NEW

OTHER ITEMS

FOR GUIDE TO DIGITAL CAMERAS SEE PAGE 329
FOR APPLE MONITORS SEE PAGE 132
FOR POWER MAC ACCESSORIES SEE PAGE 134

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MONITORS

Apple



Now styled to match Apple's latest elegant computer systems, **Apple ColorSync Displays** feature advanced colour calibration for outstanding image quality and colour consistency. Combining top-of-the-line Sony Trinitron™ CRT technology with innovative Apple software technologies and ergonomic design features, they're ideal viewing solutions for even the most demanding business and publishing professionals.
Unparalleled colour accuracy, impressive image quality, and outstanding ease of use are important, but the greatest value these advanced displays provide is their ability to streamline workflow and increase productivity. They do this through two key Apple technologies: ColorSync system-level software enables extraordinary accurate screen-to-print colour matching – so accurate that you can actually proof colour on-screen and then move straight to print.

Model	DiamondTron 17″	ColorSync 21″	15″ TFT Graphite
Tube Size	17″ (Diagonal)	20″ (Diagonal)	15″ (Diagonal)
Viewable image	16″ (Diagonal)	19.8″ (Diagonal)	15″ (Diagonal)
Screen type	Sony Trinitron		TFT
Dot pitch	0.25mm	0.26mm	
Max resolution	1600 × 1200@60Hz	1600 × 1200@75Hz	1024 × 768
Agency approvals	TCO 99, EPA Energy Star, MPR II		TCO 95
Interface	Apple DB-15 connector		
Dimensions (W × D × H)	486 × 439 × 499	574 × 550 × 569	490 × 399 × 249
Warranty	12 months		

	DESCRIPTION	SCREEN SIZE	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	Apple DiamondTron Studio Display (Graphite)	17″	63-55-85	324.61	▶	329.99	328.01
	Apple ColorSync Studio Display (Graphite)	21″	63-55-92	972.86	▶	989.00	983.07
NEW	Apple 15″ TFT Graphite	15″	64-38-92	884.33	▶	899.00	893.61

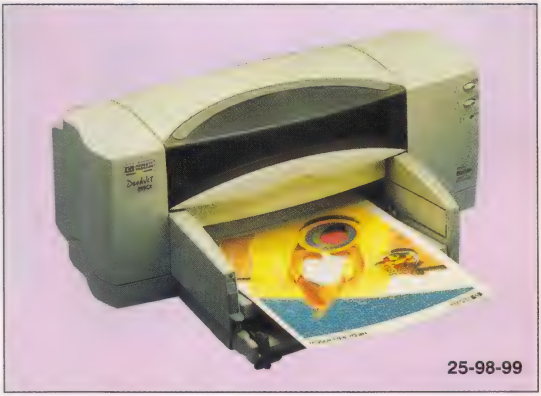
OTHER ITEMS
FOR GUIDE TO SECURITY SEE PAGE 510
FOR APPLE DESKTOPS SEE PAGE 131

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶ Save £££'s!
▶▶ Check live stock
▶▶ Track order status

APPLE COMPATIBLE PRINTERS

hp invent EPSON®

The **HP DeskJet 895Cxi Pro Series Printer** is your business partner that does wonders for office productivity and through its networking feature set, handles multiple users with ease. The HP DeskJet 859Cxi Professional Series offers printing performance to meet the business demands of a small office or workgroup with exceptionally fast print speeds of up to 10 pages per minute for black text and 6ppm for colour. Moreover, it is ideal for small workgroups by offering optional network connectivity via HP's JetDirect 170X servers. It features HP's award-winning Photo Resolution Enhancement technology II. The result is a more vivid colour output, lighter tones and smoother graduations between tones without having to sacrifice print speed.



25-98-99



47-70-32

The **EPSON Stylus COLOR NEW 760** and **760i** offers a new improved design for quieter printing and provides home and office users genuine ground breaking performance thanks to the very latest developments in 4-colour inkjet technology. EPSON's unique PerfectPicture Imaging System produces the ultimate laser sharp text and Photo Quality output. Outstanding 1440dpi resolution and PhotoReal colour ensure the most striking presentations, reports and newsletters, while free software and a Photo Quality Paper Pack complete what is truly the ultimate home and office printing solution for PC and iMAC users. Also available are optional multi-

EPSON PerfectPicture Imaging System

For more products see www.action.com

SEE PAGE 135 FOR PRINTER CARTRIDGES

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
HP DeskJet 895Cxi Pro	25-98-99	147.98	➧	148.95	148.58	
Epson Stylus Color 760	47-70-32	102.28	➧	102.95	102.69	NEW
Epson Stylus Color 760i	53-01-15	111.11	➧	112.95	112.27	

OTHER ITEMS

FOR GUIDE TO PRINTERS SEE PAGE 371
FOR PRINTER CONSUMABLES SEE PAGES 947–1009

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

DESKTOP COMPUTER ACCESSORIES

Apple



The **LS120** drive is a form, fit and function replacement for current floppy drives. But why replace your existing drive? The LS120 delivers 80 times the capacity and five times the speed of existing 1.44MB drives. Moreover, at 120MB, you get the capacity needed for today's multimedia environments – without losing read/write compatibility with 720KB and 1.44MB floppy disks and since the a:drive utilises an industry-standard ATAPI IDE interface it's easy to integrate into any PC.



Today's computer users demand keyboards designed specifically for the way they work and the dynamic variety of multimedia applications. Belkin is at the cutting edge of the marketplace with keyboards that smartly integrate with the latest computing trends and needs.

- Plug and Play into any Mac OS 8.5 compatible Apple Macintosh with USB port.
- 105/106 keys, similar to the Apple extended keyboard function keys.
- Sleek cool blue design.
- 1.2m cable. W460 × D168 × H36mm.

DESCRIPTION	FOR USE WITH	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Imation SuperDisk LS-120 2x floppy drive (**External**)	USB	70-17-57	95.53	99.95	98.95	97.96
Agfa SnapScan 1212u Flatbed Scanner (USB)	G3 Models	62-39-99	84.70	87.95	87.07	86.20
Belkin Mac Keyboard	G3/G4 Models	63-31-59	34.40	35.99	35.63	35.27
Apple 56K internal modem	G3/G4 Models	63-17-87	65.95	69.00	68.31	67.63
Apple Internal 100MB Zip Drive Kit	PowerMac	63-18-03	71.26	73.99	73.25	72.52
Accuratus USB Mouse	G3 Models	62-35-28	9.76	10.95	10.62	10.30
Kingston 64MB memory upgrade	PowerMac G3 (PC100)	64-23-58	57.91	65.00	63.05	61.16
Kingston 128MB memory upgrade	PowerMac G3 (PC100)	64-23-34	119.40	◗	130.00	126.10

WARRANTY UPGRADES AND EXTENSIONS

DESCRIPTION	FOR USE WITH	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
1 year on-site upgrade	iMac and G3 minitower and servers	63-31-10	31.18	35.00	33.95	32.93
3 year on-site warranty	G3 minitower, servers and monitors	63-94-92	174.13	◗	179.00	177.21
3 year on-site warranty	iMac	63-53-68	120.68	◗	125.00	123.75

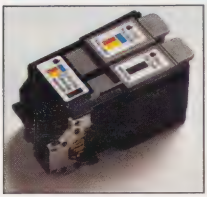
OTHER ITEMS

FOR APPLE DESKTOP COMPUTERS SEE PAGES 128–131
FOR APPLE MONITORS SEE PAGE 132

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRINTER SUPPLIES

Apple






PART NO.	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
INKJET CONSUMABLES For StyleWriter 4500 consumables see page 1005.						
M8041G/A	StyleWriter I/II/Port./1200 Black Ink Cartridge	21-77-14	10.83	11.25	11.14	11.03
M8041G/A	StyleWriter I/II/Port./1200 Black Ink Cartridge **(5 pack)**	04-15-33	49.55	51.45	50.94	50.43
M3240G/A	Colour StyleWriter Pro 2400/2500 Black Ink Cartridge	22-14-63	14.88	15.45	15.30	15.14
M3328G/A	Colour StyleWriter Pro 2400/2500 Colour Ink Cartridge	22-14-70	20.66	21.45	21.24	21.02
LASER PRINTER CONSUMABLES						
M0089LL/A	Personal LaserWriter NT/NTR/SC Toner Cartridge	21-50-77	40.40	41.95	41.53	41.12
M6002G/A	LaserWriter II Toner Cartridge (SX)	22-45-94	36.07	37.45	37.08	36.70
M2045G/A	LaserWriter 300/320 Toner Cartridge	21-79-58	33.66	34.95	34.60	34.25
M2473G/A	LaserWriter Pro 600/630/800 Toner Cartridge	21-50-84	44.73	46.45	45.99	45.53
M1960G/A	LaserWriter Select 300/310/360 Toner Cartridge	21-79-41	45.70	47.45	46.98	46.51
M5893G/A	LaserWriter 8500 Toner Cartridge	23-00-38	137.17	◗	139.45	138.61

MACINTOSH SOFTWARE

Apple

More speed. More intelligence. Astounding ease of use. It could only be **Mac™ OS 9.** This latest version of the Mac OS offers more than 50 powerful new features to new users while extending the control and customisation that advanced users demand.
Leading the powerful new features in Mac OS 9 is the revolutionary **Sherlock2™** technology from Apple – your personal search detective. Sherlock searches the World Wide Web computer with lightening speed and amazing ease, saving you hours of valuable time.
ColorSync3™ manages colour across input, display and output. It features include Applescript support, saveable workflow settings and a Calibration Assistant.

If you are running Mac OS 8.5 or later you can upgrade to Mac 0S 8.6 for free see **www.Apple.com** for details.



63-18-67

DESCRIPTION	FORMAT	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Mac OS 9	MAC	63-18-67	66.45	69.00	68.31	67.63

OTHER ITEMS
FOR INKJET FILM SEE PAGES 1027, 1028
FOR CLEANING PRODUCTS SEE PAGES 534–540
FOR MORE MAC SOFTWARE SEE PAGE 819

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

INDEX BY PRODUCT TYPE

All-In-One Computers – Mac 127
Desktop Computer Accessories – Mac .. 134
Desktop PC Accessories 130, 145, 151, 161-162
Desktop PCs .. 137-144, 146-150, 154-159, 164-166
Desktop Workstation PCs 144
Fileserver Accessories .. 178-179, 182, 185
Fileserver Accessories – Mac 176
Fileserver – Rack Mountable 173
Fileservers 168-171, 180-181, 183-184
Fileservers – Rack Mountable 172
Guide to – Macintosh 126
LaserJet Printers – for Macintosh 133
Memory Upgrades 145, 161
Minitower PCs 141
Minitower PCs – Mac 131
Monitors – Mac 132
Notebook Computers 129
Notebook Computers – Mac 128
Notebook PC Accessories 130
PC Clearance 167
Printer Supplies – Mac 135
Rack Mountable Fileservers 174-175
Server RAM Upgrades 176
Software – Mac 135
Tower PCs 150, 154-155
Workstations 160

INDEX BY MANUFACTURER

Desktop PC Clearance Bargains.... 167

Apple
All-In-One Computers..... 127
Desktop Computer Accessories.... 134
Desktop PC Accessories..... 130
Guide to – Apple Macintosh..... 126
Minitower PCs – Mac..... 131
Monitors..... 132
Notebook Computers – Mac... 128–129
Notebook PC Accessories..... 130
Printer Supplies..... 135
Software..... 135

Compaq
Desktop PC Accessories..... 161–163
Desktop PCs..... 154–159
Fileserver Accessories..... 178–179
Fileserver – Rack Mountable..... 173
Fileservers..... 168–171
Fileservers – Rack Mountable..... 172
Rack Mountable Fileservers.... 174–175
Server RAM Upgrades..... 176
Tower PCs..... 154–155
Workstations..... 160

Fujitsu/Siemens
Desktop PC Accessories..... 151
Desktop PCs..... 148–150
Tower PCs..... 150

Hewlett-Packard
Desktop PC Accessories..... 145
Desktop PCs..... 137–144
Desktop Workstation PCs..... 144
Fileserver Accessories..... 182
Fileservers..... 180–181
Minitower PCs..... 141

IBM
Desktop PCs..... 146–147
Fileserver Accessories..... 185
Fileservers..... 183–184

Toshiba
Desktop PCs..... 164



NEW – Toshiba Equium 3200M. See page 166

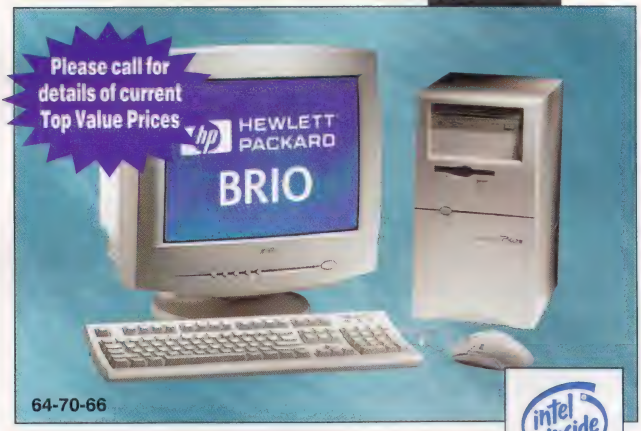


NEW – Hewlett-Packard Vectra VLi8 models. See pages 141, 142

DESKTOP PCs

HEWLETT PACKARD
Authorised Reseller
Personal Computer Products

hp invent



intel inside
pentium III

MONITOR NOT INCLUDED

HP Top Value Brio

The **HP Brio** range of Mini-Tower PCs are specifically designed for small businesses and come with a host of utilities to make your business run more efficiently.
The **Brio** PCs on this page offer a range of features set from entry-level to fully-loaded performance systems and are available with either Intel Celeron or Pentium III processors up to 650MHz.

Features Include:

- Brio Internet Center on modem models, including instant internet connection.
- Brio Diagnostic Tools software.
- Brio Assist CD.
- McAfee anti-virus software.

UPGRADE YOUR WARRANTY
SEE PAGES 424-425
HP SUPPORTPACK

Model	Brio BA400	Brio BA600
Processor	Intel Cel (500, 550EMHz) and PIII (600MHz)	Intel PIII (650EMHz)
RAM	64MB SDRAM	128MB SDRAM
Hard drive	10GB	13.5GB
CD/DVD-Rom Drive	48×CD	8×DVD
LAN	HP 10/100BT PCI LAN Card in Model D8967T only	
Modem	56K Modem in models D9721T, D8967T and D8789T only	
Graphics Controller	Intel 3D Direct AGP 2D/3D (D9721T) Matrox MGA G200 AGP 2X (D9085T, D8967T, D8789T)	
Ports	Parallel, Serial, PS/2, 2x USB, VGA, Stereo-in, Stereo-out, Microphone-in, MIDI/Joystick, RJ-45 Ethernet (D8967T only)	
Operating system	Windows 98	
Dimensions (W×D×H)	196×349×359mm	
Weight	12kg	
Warranty	Three year – 1 year on-site, 90 days on software	

FOR TECHNICAL SERVICES SEE PAGES 23–39

DESCRIPTION	PROCESSOR	RAM	HDD	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Brio BA400 (D9721T) CD	Cel 500MHz	64MB	10GB	64-70-66	417.54	◗	419.00	418.58	NEW
Brio BA600 (D9085T) CD	Cel 550EMHz	64MB	10GB	64-27-96	457.40	◗	459.00	458.54	NEW
Brio BA600 (D8967T) CD/SBE	PIII 600MHz	64MB	10GB	64-95-70	646.73	◗	649.00	648.35	NEW
Brio BA600 (D8789T) DVD	PIII 650EMHz	128MB	13GB	64-98-51	746.38	◗	749.00	748.25	NEW

OTHER ITEMS

FOR HEWLETT-PACKARD ACCESSORIES SEE PAGES 144, 145
FOR HEWLETT-PACKARD MONITORS SEE PAGE 322

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW item on this page

DESKTOP PCs

HEWLETT PACKARD Authorised Reseller Personal Computer Products

hp invent



UPGRADE YOUR WARRANTY
SEE PAGES 424-425
HP SUPPORTPACK

HP Top Value Models

MONITOR NOT INCLUDED

These special offer models have been selected from HP's Vectra VEi and VLi ranges to be sold at extra low prices while stocks last. Because these models change frequently, please call for details of HP's latest Top Value offers.

The Vectra series from Hewlett-Packard are their best value PCs for small business and for professional users in medium and large companies who run mainstream office applications.

The Vectra range have been built to expand with your future needs so it is easy to add enhancements. These models feature Intel's Celeron 466MHz or Pentium III 500MHz processors and are available with either Windows 95 or Windows NT 4.0. A Vectra VLi small form factor machine has now been added to the range.

Model	Vectra VEi	Vectra VLi SFF
Processor	Intel Celeron (500MHz) or Intel Pentium III (500, 550 or 600MHz)	
Cache	128Kb (Celeron) or 512Kb (Pentium III)	
RAM	64 or 128MB SDRAM (expandable to 384MB)	
Hard drive	8.4GB	
Floppy drive	3.5" 1.44MB	
CD-ROM drive	32× on CDS model	24× slim CD-ROM
Graphics controller	4MB on Cel, 8MB on PIII	Matrox MGA – G200 3D AGP with 8MB
Expansion slots	1×ISA, 3×PCI	1×PCI, 1×PCI/ISA
Ports	Parallel, serial, 2×USB	Parallel, 2×serial, 2×USB
Drive Bays	2×5.25", 2×3.5"	2×3.5"
Operating system	Windows 95 or Windows NT	
Dimensions (W×D×H)	418×148×140mm	370×390×95mm
Warranty	Three year – first 12 months on-site	

	DESCRIPTION	PART NO	RAM	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	Vectra VEi7 Cel 500MHz W95	D8116T	64MB	64-19-22	383.65	◗	385.00	384.62
NEW	Vectra VEi8 PIII 550MHz W95	D8188T	64MB	64-32-21	576.98	◗	579.00	578.42
NEW	Vectra VEi8 PIII 600MHz WNT	D8158T	64MB	64-54-60	686.59	◗	689.00	688.31
NEW	Vectra VEi8 PIII 550MHz CDS WNT	D9742T	128MB	64-95-53	783.25	◗	786.00	785.21
✂	Vectra VLi SFF PIII 500MHz CDS, LAN WNT	D7867T	64MB	63-22-95	696.56	◗	699.00	698.30

OTHER ITEMS

FOR HP ACCESSORIES SEE PAGES 144, 145
FOR HP MONITORS SEE PAGE 322

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DESKTOP PCs

HEWLETT PACKARD Authorised Reseller Personal Computer Products

hp invent

If you are looking for a solid corporate PC that incorporates the latest industry-standard technologies, take a long look at the new **HP Vectra VEi** line. The latest HP Vectra VEi PCs are manageable corporate PCs that combine HP's renowned quality and reliability with a flexible multipurpose package. The HP Vectra VEi PCs permanently aggressive pricing delivers exceptional value!

The **VEi range** has been built to expand with your future needs so it is easy to add enhancements. Celeron 533MHz and PIII processors up to 650MHz, 440EX chipset and integrated Matrox MGA-G200 AGP graphics with 8MB memory.
Available with either Windows 95, Windows 98, or Windows NT 4.0.

UPGRADE YOUR WARRANTY SEE PAGES 424-425 HP SUPPORTPACK



Model	Vectra VEi Celeron	Vectra VEi Pentium III
Processor	Intel Celeron (500 or 533MHz)	Intel PIII (650MHz)
Cache	512KB	256KB
RAM	64MB SDRAM (exp to 256MB)	64MB SDRAM (exp to 384MB)
Hard drive	4.3, 8.4 or 13.5GB	
Floppy drive	3½" 1.44MB	
CD-ROM drive	48 × on CD models	
Graphics controller	SiS Super AGPset 4MB	Matrox MGA G200 AGP 2 × 8MB
Sound Card	16-bit Stereo full duplex PCI audio	
Expansion slots	1 × ISA, 3 × PCI	
Drive bays	2 × 5¼" ext, 1 × 3½" int, 1 × 3½" ext	
Ports	1 × Parallel, 1 × serial, 2 × USB	
Operating system	Windows 95/98 or NT 4.0	
Dimensions (W × D × H)	418 × 148 × 140mm	
Warranty	Three year – first 12 months on-site upgradable with a HP SupportPack	

MONITOR NOT INCLUDED

DESCRIPTION	PART NO.	RAM	HARD DRIVE	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
VEi7 Cel 500 W95	D8136A	64MB	4.3GB	63-54-15	527.15	♦	529.00	528.47	
VEi7 Cel 500 LAN WNT	D8137N	64MB	4.3GB	63-19-15	596.91	♦	599.00	598.40	
VEi7 Cel 500 CD W95	D8138A	64MB	8.4GB	63-95-28	576.98	♦	579.00	578.42	
VEi7 Cel 500 CD W98	D8139A	64MB	8.4GB	63-18-77	576.98	♦	579.00	578.42	
VEi7 Cel 533 W95/98	D8145A	64MB	8.4GB	64-19-96	586.94	♦	589.00	588.41	NEW
VEi7 Cel 533 WNT	D8118N	64MB	8.4GB	64-32-89	612.85	♦	615.00	614.39	NEW
VEi7 Cel 533 W95/98	D8117A	64MB	13GB	64-95-90	622.82	♦	625.00	624.38	NEW
VEi8 PIII 650 W95/98	D9791A	64MB	8.4GB	64-39-44	747.38	♦	750.00	749.25	NEW
VEi8 PIII 650 LAN WNT	D9792N	64MB	8.4GB	64-28-18	817.13	♦	820.00	819.18	NEW
VEi8 PIII 650 CD W95/98	D9793A	64MB	13.5GB	63-54-30	925.75	♦	929.00	928.07	
VEi8 PIII 650 CD W95/98	D9793A	64MB	13.5GB	63-54-30	925.75	♦	929.00	928.07	
HP 52 15" Monitor	D2828A	—	—	96-30-86	106.96	♦	109.95	108.85	
HP 71 17" Monitor	D8901A	—	—	20-94-80	160.46	♦	164.95	163.30	

OTHER ITEMS

FOR HP ACCESSORIES SEE PAGE 144
FOR HP MONITORS SEE PAGE 322

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW item on this page

DESKTOP PCs

HEWLETT PACKARD Authorised Reseller Personal Computer Products

hp invent



64-19-97

Vectra VLi8 – Desktop models

If you are looking for advanced manageability, stability and security, and serviceability features, the new HP Vectra VLi8 line is for you. In demanding, actively managed corporate environments, the HP Vectra VLi8 PCs will help you speed deployment, upgrades, or repair. And your staff can control your HP Vectra VLi8 PCs easily and centrally.

Vectra VLi8 models are ideal for corporate users and feature Pentium III processors up to a massive 750MHz, Soundcards, Matrox G200 graphics and 48×CD-ROMs (CD models only).
LAN models include 3Com 10/100 Base-TX LAN interface card.

MONITOR NOT INCLUDED

Model	Vectra VLi8 Pentium III
Processor	Intel PIII (600, 650 or 750MHz)
RAM	64 or 128MB SDRAM (expandable to 384MB)
Cache	512KB
Hard drive	8.4GB UATA
Floppy drive	3.5″ 1.44MB
CD-ROM drive	48×speed on CD models
Sound Card	Included – Sound Blaster Pro compatible, 16-bit
Graphics controller	Matrox MGA G200 AGP 2x 3D with 8MB SDRAM
Expansion slots	2×PCI, 1×ISA, 1×PCI/ISA
Drive bays	1×3.5″ ext, 1×3.5″ int, 2×5.25″ ext
Ports	1×Parallel, 2×serial, PS/2 keyboard/mouse, monitor, 2×USB
Keyboard	102 key
Operating system	Windows 95 or Windows NT 4.0
Dimensions (W×D×H)	443×435×138mm
Weight	10.4kg
Warranty	Three year – first 12 months on-site upgradable with a HP SupportPack

UPGRADE YOUR WARRANTY
SEE PAGES 424-425
HP SUPPORTPACK

All models are Desktop Form Factor. See pages 141 and 142 for Mini-Tower and Small Form Factor.

	DESCRIPTION	PART NO	RAM	HDD	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	VLi8 PIII 600E LAN WNT	D9455A	64MB	8.4GB	64-19-97	796.21	◗	799.00	798.20
NEW	VLi8 PIII 600E LAN WNT	D9458A	128MB	8.4GB	64-23-36	CHECK ONLINE	◗	◗	FREE Call
NEW	VLi8 PIII 600E CD W95	D9774A	64MB	8.4GB	64-39-45	762.33	◗	765.00	764.24
NEW	VLi8 PIII 650 CD LAN WNT	D9771A	128MB	8.4GB	64-28-19	941.70	◗	945.00	944.06
NEW	VLi8 PIII 750 LAN WNT	D9461A	128MB	8.4GB	64-32-64	1147.13	◗	◗	1150.00
NEW	HP 52 15″ Monitor	D2828A	–	–	96-30-86	106.96	◗	109.95	108.85
NEW	HP 71 17″ Monitor	D8901A	–	–	20-94-80	160.46	◗	164.95	163.30
NEW	HP 1800 LCD Display 18.1″ TFT Monitor	D5065A	–	–	36-99-71	2094.96	◗	◗	2100.00

OTHER ITEMS

FOR HEWLETT-PACKARD ACCESSORIES SEE PAGES 144, 145
FOR HEWLETT-PACKARD MONITORS SEE PAGE 322

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DESKTOP PCs

HEWLETT PACKARD Authorised Reseller Personal Computer Products

hp invent

Vectra VLi8

If you're looking for advanced manageability, stability and security and serviceability features, the HP Vectra VLi range incorporates three standard form factors – desktop, mini-tower and the small form factor, that share common components. This means that an MIS department can evaluate and qualify any one of the models and then safely roll out a mix of sizes and form factors, depending on the appropriate model for each department.

'It's rare to find a manageable system for corporate use that also offers outstanding expansion and unrivalled performance, but in the Vectra VLi8 MT Hewlett-Packard has redifined the standard.'

PC Magazine June 1999.



PC MAGAZINE EDITORS' CHOICE

MINITOWER FORM FACTOR

MONITOR NOT INCLUDED

Model	Vectra VLi Minitower
Processor	Intel Pentium III (600E, 650, 700 or 800MHz)
Cache	512KB
RAM	64 or 128MB SDRAM (expandable to 384MB)
Hard drive	13.5GB
Floppy drive	Modular 3.5" 1.44MB
CD-ROM drive	48 × speed on CD models
Sound Card	SoundBlaster Pro Compatible
Graphics Controller	Matrox MGA G200 AGP 2× 3D with 8MB SDRAM
Keyboard	102 key
Expansion Slots	3 × PCI, 3 × ISA
Drive Bays	1 × 3.5"ext, 2 × 3.5" int, 3 × 5.25"
Ports	1 × Parallel, 2 × serial, PS/2 keyboard/mouse 2 × USB
Operating system	Windows 95 or Windows NT with Windows 95 CD
Dimensions (W × D × H)	207 × 445 × 469mm
Weight	14.8kg
Warranty	Three year - first 12 months on-site upgradeable with a HP SupportPack

UPGRADE YOUR WARRANTY SEE PAGES 424-425 HP SUPPORTPACK

DESCRIPTION	PART NO	RAM	HDD	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Vectra VLi8 PIII700 CD W95 Tower	D9460A	64MB	13.5GB	63-95-49	1114.53	➧	➧	1119.00	
Vectra VLi8 PIII600E CD W95	D9459A	64MB	13.5GB	64-37-22	807.17	➧	810.00	809.19	NEW
Vectra VLi8 PIII600E CD LAN WNT	D9775A	128MB	13.5GB	64-32-63	921.77	➧	925.00	924.08	NEW
Vectra VLi8 PIII650 CD LAN WNT	D9809A	128MB	13.5GB	64-98-66	985.54	➧	989.00	988.01	NEW
Vectra VLi8 PIII800 CD LAN WNT	D9462A	128MB	13.5GB	64-19-39	1371.57	➧	➧	1375.00	NEW
HP 52 15" Monitor	D2828A	—	—	96-30-86	106.96	➧	109.95	108.85	
HP 71 17" Monitor	D8901A	—	—	20-94-80	160.46	➧	164.95	163.30	

OTHER ITEMS

FOR HEWLETT-PACKARD ACCESSORIES SEE PAGE 144
FOR HEWLETT-PACKARD MONITORS SEE PAGE 322

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW *item on this page*

DESKTOP PCs

HEWLETT PACKARD
Authorised Reseller
Personal Computer Products

hp invent



Vectra VLi8 Small Form Factor

HP Vectra VLi8 PC range replaces the HP Vectra VL8 PC Range. They are targeted for use in demanding, actively managed, corporate environments which require advanced management ability, stability, security and serviceability features at a cost-effective price.

Vectra VLi models are ideal for corporate users and feature Celeron 500MHz or Pentium III processors up to a massive 600MHz. All models include 3Com 10/100 Base-TX LAN interface and CD models include 24 × Slimline CD-ROMs.

UPGRADE YOUR WARRANTY
SEE PAGES 424-425
HP SUPPORTPACK

intel inside
pentium III

MONITOR NOT INCLUDED

"Stable, manageable and secure"

Model	Vectra VLi8 Small Form Factor
Processor	Intel Cel (500MHz) or Intel PIII (600E or 650MHz)
RAM	64 or 128MB SDRAM
Hard drive	8.4GB
Floppy drive	Modular 3.5 1.44MB
CD-ROM drive	24 × on CD models
Graphics Controller	Matrox MGA G200 AGP 2 × 3D with 8MB SDRAM
Keyboard	102 key
Expansion Slots	1 × PCI, 1 × PCI/ISA
Ports	1 × Parallel, 2 × Serial, PS/2 keyboard/mouse, monitor, 2 × USB
Operating system	Windows 95, Windows NT or Workstation 4.0
Dimensions (W × D × H)	370 × 390 × 95mm
Weight	7.54kg
Warranty	Three year – first 12 months on-site upgrade with a HP SupportPack

	DESCRIPTION	HP PART NO	RAM	HDD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
✂	VLi8 Cel 500 CD LAN W95	D9456A	64MB	8.4GB	63-19-16	567.01	◗	569.00	568.43
NEW	VLi8 PIII600E CD LAN WNT	D9468A	128MB	8.4GB	64-78-65	CHECK ONLINE	◗	◗	FREE Call
NEW	VLi8 PIII600E CD SFF WNT	D9779N	64MB	8.4GB	64-31-97	802.19	◗	805.00	804.20
NEW	VLi8 PIII650 LAN CD SFF WNT	D9770N	64MB	8.4GB	64-54-36	871.94	◗	875.00	874.13
	HP 1800 LCD Display 18.1" TFT	D5065A	—	—	36-99-71	2094.96	◗	◗	2100.00

OTHER ITEMS

FOR HEWLETT-PACKARD ACCESSORIES SEE PAGES 144, 145
FOR HEWLETT-PACKARD MONITORS SEE PAGE 322

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DESKTOP PCs

eVectra Desktop PC

The new, dictionary-sized e-PC, which weighs just 8 pounds (3.8 kilograms), can be wall-, or under-counter-mounted. It combines PC functionality with e-services tools and support to create a desktop that dramatically improves the service experience for users and IT managers alike.

An interactive, 3-D demonstration of the e-Vectra and its essential features is available on the Web at www.action.com/hp.



Please see www.action.com/hp for more products and information

MONITOR NOT INCLUDED

Model	Hewlett-Packard eVectra
Processor	Intel Celeron (500 or 533MHz) or PIII (600 or 667MHz)
RAM	64MB, 128MB and 256MB SDRAM standard
Hard Drive	8.4GB Ultra ATA/66 SMART II hard disk
CD-ROM Drive	Modular 24 × CD-ROM
Ethernet	Integrated 3Com Fast EtherLink 10/100Base-TX LAN solution
Graphics Controller	Intel 3D Direct AGP for fast, high-quality 2D and 3D graphics
Ports	Parallel, Serial, 2 × PS/2, 2 × USB, VGA, Audio (stereo-in, stereo-out, microphone-in), RJ-45 Ethernet
Operating System	Win 98 or W2K
Dimensions (W × D × H)	890 × 240 × 272mm
Weight	3.86kg
Warranty	Three year worldwide limited hardware warranty repair and return

FOR TECHNICAL SERVICES SEE PAGES 23–39

DESCRIPTION	PROCESSOR	RAM	HDD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
eVectra (D9896T) W98	Cel 500MHz	64MB	8.4GB	64-23-19	377.68	➧	379.00	378.62	NEW
eVectra (D9897T) W98	Cel 533MHz	128MB	8.4GB	64-39-32	533.13	➧	535.00	534.47	NEW
eVectra (D9898T) W2000	PIII 600MHz	128MB	8.4GB	64-28-10	666.66	➧	669.00	668.33	NEW
eVectra (D9899T) W2000	PIII 667MHz	256MB	8.4GB	64-37-15	826.10	➧	829.00	828.17	NEW

OTHER ITEMS

FOR HP ACCESSORIES SEE PAGE 143
FOR HP MONITORS SEE PAGE 322

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW item on this page

DESKTOP WORKSTATION PCs

HEWLETT PACKARD
Authorised Reseller
Personal Computer
Products

hp invent



The **Kayak XM600** – HP's flexible, expandable mainstream Workstation closes the gap between attractive PC price and superior workstation performance. This high-performance desktop incorporates the Intel Pentium III processor with 100MHz, the fastest available and features both the new Intel 820 chipset and a choice of synchronous dynamic RAM (SDRAM) or Rambus® direct RAM (RDRAM) memory architecture. All models are dual-processing ready.

The **Kayak XU800** Workstation, featuring Intel's 840 chipset and the new Pentium III 600EBMHz or 733MHZ processor with 133MHz FSB, is the fastest Workstation on the market. A choice of four AGP-based graphic solutions ensures your needs are met.

MONITOR NOT INCLUDED

Model	Kayak XM 600	Kayak XU 800
Processor	Intel Pentium III 600EB (667 or 733MHz)	
RAM	128MB SDRAM (exp. to 1GB)	
Hard drive	9.1 or 15GB	
Floppy drive	3.5" 1.44MB	
CD-ROM drive	48 × max. IDE	
Graphics controller	ELSA Synergy II AGP 2 × /4 × 32MB (64-95-78)/Matrox Millennium G250 (64-54-66)	Matrox Millennium G400 Dual AGP 2 × 1 4 × 8MB or G250 AGP 2 × /8 × (on 63-19-14)
Keyboard	HP Multimedia Keyboard	
Ports	1 × Parallel, 2 × Serial, 2 × USB	
Operating system	Windows NT 4.0 or PC DOS Flex OS Model (64-54-66)	
Dimensions (W × D × H)	457 × 420 × 162mm	
Weight	12kg	
Warranty	Three year – 1 year on-site, 90 days on software	

FOR TECHNICAL SERVICES SEE PAGES 23–39

	DESCRIPTION	PART NO	RAM	HDD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	Kayak XM 600 PIII 667	D9546N	128MB	9.1GB	64-95-78	1385.53	◗	◗	1389.00
NEW	Kayak XM 600 PIII 733	D9558N	128MB	15GB	64-54-66	1137.15	◗	◗	1140.00
	Kayak XU 800 PIII 600EB	D8021N	128MB	15GB	63-31-98	1304.77	◗	◗	1310.00
	Kayak XU 800 PIII 733	D8010N	128MB	9.1GB	63-19-14	1648.39	◗	◗	1655.00

OTHER ITEMS
FOR HP ACCESSORIES SEE PAGE 143
FOR HP MONITORS SEE PAGE 322

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DESKTOP PC ACCESSORIES

HP VECTRA VE/VL/BRIO/KAYAK SERIES ACCESSORIES

UPGRADE YOUR WARRANTY
SEE PAGES 424-425
HP SUPPORTPACK

DESCRIPTION	FOR USE WITH	PART NO	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
HP Windows 95 keyboard	Vectra VEi/VLi/ Kayak	C4735A	67-38-77	21.19	22.00	21.78	21.56
6.4GB IDE HDD	Vectra VE/VLi	D8372A	63-31-13	107.00	◗	110.00	108.90
5× Max DVD Drive	Vectra VEi8/VLi8	D7520A	63-31-77	154.47	◗	159.99	158.39
48× IDE CD-ROM Drive	Brio/Vectra	D9444A	12-11-58	67.36	69.95	69.25	68.56
32MB Non-ECC Memory (100MHz)	Brio	D6501A	55-97-57	78.97	82.00	81.18	80.37
64MB Non-ECC (100MHz)	Brio/Vectra	D6505A	63-12-35	2693.53	◗	◗	2700.00
128MB Non-ECC Memory (100MHz)	Vectra/Kayak	D6503A	63-12-64	264.61	◗	269.00	267.39
64MB ECC Memory (100MHz)	Kayak/VL8	D6522A	55-97-88	160.51	◗	165.00	163.35
128MB ECC Memory (100MHz)	Kayak/VL8	D6523A	29-25-88	281.13	◗	289.00	286.11
256MB ECC Memory (100MHz)	Kayak/VL8	D6743A	29-65-77	485.41	◗	499.00	494.01
HP VALUE MONITORS							
HP 52 15" SVGA Display	Brio/Vectra/ Kayak	D2828A	96-30-86	106.96	◗	109.95	108.85
HP 71 17" SVGA Display	Brio/Vectra/ Kayak	D8901A	20-94-80	160.46	◗	164.95	163.30
HP PERFORMANCE MONITORS							
HP 21" P1100 Ergo Display	Vectra VE/VL/ Kayak	D2847A	41-17-62	729.53	◗	749.95	742.45
HARD DISK DRIVES							
8.4GB Ultra Hard Disk Drive	Brio/Vectra	D8373A	64-23-45	154.67	◗	159.00	157.41
10.0GB Ultra Hard Disk Drive	Brio/Vectra	D9623A	64-12-96	145.92	◗	150.00	148.50
HP SUPPORTPACKS *See pages 432–433 for all SupportPack details							
HP 3 year next day on-site Supportpack	Vectra VE/VL	H5480A	72-96-04	95.57	99.99	98.99	98.00
HP 3 year next day on-site Supportpack	Brio	H5483A	79-61-18	95.57	99.99	98.99	98.00
Stand Alone PC Installation	Vectra/Kayak	H5759A	29-43-04	81.24	85.00	84.15	83.31
2 Day Unit Exchange	E-Vectra	H3673A	64-32-04	33.45	35.00	34.65	34.30

OTHER ITEMS

FOR HP VECTRA PCs SEE PAGES 138–143
FOR HP BRIO PCs SEE PAGE 137
FOR HP KAYAK WORKSTATION SEE PAGE 144

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DESKTOP PCs

IBM™



MONITOR NOT INCLUDED

The **IBM PC300GL** models with Pentium III processors give you new levels of performance, manageability and security for your core computing tasks, at an outstanding value.
These systems deliver many network management and control features not found in other PCs, they also have the new NLX motherboard and innovative chassis design, which means that it has never been easier to upgrade or service.

The IBM PC 300GL refresh copper-technology models offer Intel® Pentium® III processors teamed with powerful SR9 AGP 2X graphics and an advanced AGP 4X/133 core chipset, integrated ESS Allegro audio, with select models having 48X max CD-ROM drives as standard. Combining this performance with IBM's award-winning quality and design delivers a general business PC solution that is optimised to deliver strong performance with outstanding affordability.

Model	PC 300GL Pentium models
Processor	Intel PIII (667, 733, 800 or 886MHz)
RAM	128MB NP SDRAM 133MHz (max 1GB)
Hard drive	13.5 or 20.4GB
Floppy drive	3.5" 1.44MB
CD-ROM	48× on CD Models
Sound card	ESS-PCI Allegro audio with integrated speaker
Graphics	SR9S3 Savage 4 AGP (8MB)
Expansion slots	3× PCI, 1× AGP 4×
Drive bays	1× ext. 3½", 1× int. 3½", 2× ext. 5¼"
Keyboard	105 key
Ports	2× serial, 2× USB, parallel, video, keyboard/mouse
Operating system	Win 98 or Win NT
Dimensions (W×D×H)	400×423×139mm
Weight	8.6kg
Warranty	Three year parts and labour

FOR TECHNICAL SERVICES SEE PAGES 23–39

	DESCRIPTION	RAM	HDD	FORMAT	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	PC 300GL PIII667, CD	128MB	13.5GB	W98	63-27-99	1104.57	➧	➧	1109.00
	PC 300GL PIII667, CD	128MB	13.5GB	WNT	63-98-53	1144.41	➧	➧	1149.00
	PC 300GL PIII733, CD	128MB	20.4GB	W98	63-54-41	1293.81	➧	➧	1299.00
	PC 300GL PIII733, CD	128MB	20.4GB	WNT	63-76-89	1343.61	➧	➧	1349.00
NEW	PC 300GL, PIII800, CD	128MB	20.4GB	WNT	64-52-02	1341.64	➧	➧	1345.00
NEW	PC 300GL PIII866, CD	128MB	20.4GB	WNT	64-40-15	1381.54	➧	➧	1385.00

OTHER ITEMS *FOR IBM DESKTOP ACCESSORIES SEE PAGE 147*

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DESKTOP PCs

IBM™

IBM PC 300PL series PCs feature the most cost-effective technologies and services to make deploying, maintaining and managing systems easier than before. The PC 300PL models featured here come as desktop and incorporate lightning fast **Intel Pentium III processors with speeds up to 733MHz, and an integrated 10/100 ethernet card**. All models include Client Services for Netfinity Manager, LANClient Control Manager and Intel's LANDesk Client Manager software for remote, unattended system management; Windows 98, or Windows NT 4.0 operating system and 3 years parts and labour warranty.
IBM have now refreshed their range with the new IBM PC 300PL models featuring powerful SR9 AGP 2X graphics and an advanced AGP 4X/133 core chipset, integrated ESS Allegro audio, 10/100 Ethernet with Alert on LAN 2 – all in an IBM design optimised to deliver maximum performance with platform stability and investment protection.



Model	PC300PL (133MHz models)
Processor	Intel Pentium III (667 or 733MHz)
RAM	64 or 128MB NP SDRAM (133MHz) – exp 1GB
Hard drive	10.1 or 20.4GB (SMART III)
Floppy disk	3.5" 1.44MB
CD-ROM Drive	48x
Sound Card	ESS Allegro (int. speaker)
Graphics	SR9/S3 Savage 4 AGP2 × 8MB SDRAM
Expansion slots	3 × PCI × 1 × AGP
Drive bays	1 × ext. 3.5", 1 × int. 3.5", 2 × ext. 5.25"
Keyboard	105 Key
Operating system	Windows 98 or Windows NT
Dimensions (W × D × H)	400 × 423 × 139mm
Weight	8kg
Warranty	Three years on-site

For More Accessories see www.Action.Com

MONITOR NOT INCLUDED

DESCRIPTION	RAM	HDD	OP SYS	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
PC 300PL PIII 667 CD	128MB	20.4GB	W98	63-54-42	1273.89	◗	◗	1279.00
PC 300PL PIII 667 CD	128MB	20.4GB	WNT	63-95-47	1313.73	◗	◗	1319.00
PC 300PL PIII 733 CD	128MB	20.4GB	W98	63-18-97	1433.25	◗	◗	1439.00
PC 300PL PIII 733 CD	128MB	20.4GB	WNT	63-70-78	1473.09	◗	◗	1479.00

ACCESSORIES	FOR USE WITH	IBM REF NO	CAT NO				
64MB NP 133MHz SDRAM	PC300GL/PL	33L3071	63-18-73	73.18	75.99	75.23	74.48
128MB NP 133MHz SDRAM	PC300GL/PL	33L3073	63-31-76	144.94	◗	149.00	147.51
256MB NP 133MHz SDRAM	PC300GL/PL	33L3075	63-95-40	288.68	◗	299.00	296.01
64MB 133MHz ECC SDRAM	PC300GL/PL	33L3079	63-18-81	67.85	70.99	70.28	69.58
16/4 Token Ring Adaptor PCI	PC300GL/PL	34L0601	63-76-71	96.29	99.99	98.99	98.00
10/100 Fast Ethernet PCI Adaptor	PC300GL/PL	34L1201	63-18-34	53.52	55.99	55.43	54.88
G74 17" Monitor	—	—	63-49-81	214.00	◗	219.99	217.79

OTHER ITEMS FOR IBM DESKTOP ACCESSORIES SEE PAGE 147

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW *item on this page*

DESKTOP PCs

FUJITSU COMPUTERS SIEMENS



The **Scenic e-series** now comes with the **Intel® 810e chipset**, providing next generation features and great graphics performance at a lower cost. It is the ideal solution for any business that requires a PC with stability, continuity of supply and manageability but for whom price is a key consideration. Although it offers exceptional value for money, the e-series is no slouch. It is built around a Celeron or Pentium II and III processor up to 600MHz to provide more than enough power for even the most demanding of tasks.

The Pentium III 450 or 500MHz models come with a 100MHz Front Side Bus (FSB) and the EB models have the 133MHz FSB.

MONITOR NOT INCLUDED

Model	Scenic eD
Processor	Intel Celeron (500MHz) or PIII (667 or 733MHz)
RAM	64MB SDRAM (expandable to 256MB)
Cache	128KB (Cel) or 256KB (PIII)
Hard Drive	4.3 or 10GB
Floppy Drive	3.5" 1.44MB
CD-ROM Drive	48× CD (except Cel500MHz – no CD-ROM)
Graphics controller	Integrated graphics
Expansion slots	3×PCI
Drive bays	1×internal 3½", 1×external 3½"
Ports	Parallel, 1×serial, 2×USB, audio, keyboard, microphone, mouse, VGA
Keyboard	ErgoPro 105 key
Operating system	Windows 98/NT or Windows
Dimensions (W×D×H)	380×440×130mm
Weight	8.5kg
Warranty	Three year – first 12 months on-site

FOR TECHNICAL SERVICES SEE PAGES 23–39

	DESCRIPTION	PROCESSOR	RAM	HDD	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	Scenic eD W98	Cel 500MHz	64MB	4.3GB	64-91-78	324.88	♦	327.00	326.18
NEW	Scenic eD W98	PIII 667MHz	64MB	10GB	64-19-84	497.26	♦	499.00	498.50
NEW	Scenic eD W98	PIII 733MHz	64MB	10GB	64-52-01	731.43	♦	734.00	733.27
NEW	Scenic eD WNT	PIII 667Mhz	64MB	10GB	64-40-14	651.71	♦	654.00	653.35
NEW	Scenic eD WNT	PIII 667MHz	64MB	10GB	64-60-68	684.60	♦	687.00	686.31
NEW	Scenic eD WNT	PIII 773MHz	64MB	10GB	64-78-72	784.25	♦	787.00	786.21
✂	15" Monitor (MCM153V)	—	—	—	63-18-41	116.72	♦	119.99	118.79

OTHER ITEMS

FOR FUJITSU/SIEMENS ACCESSORIES SEE PAGE 151

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DESKTOP PCs

FUJITSU COMPUTERS SIEMENS

The **Scenic e-series** now comes with the **Intel® 810e chipset,** providing next generation features and great graphics performance at a lower cost. It is the ideal solution for any business that requires a PC with stability, continuity of supply and manageability but for whom price is a key consideration. Although it offers exceptional value for money, the e-series is no slouch. It is built around a Celeron or Pentium III processor up to 733MHz to provide more than enough power for even the most demanding of tasks.

FOR MORE PRODUCTS See www.Action.Com

MONITOR NOT INCLUDED



64-93-15

Model	SCENIC eT (Power Version)
Processor	Cel (500MHz) or PIII (667 or 733MHz)
Cache	128 or 256KB
RAM	64 or 128MB
Hard drive	4.3, 10 or 20GB
Floppy drive	3.5″ 1.44MB
CD-ROM	48 speed
Graphics controller	Integrated Graphics
Drive bays	1 × Internal 3.5″, 2 × External 5.25″
Ports	Parallel, 1 × Serial, 2 × USB, Audio, Keyboard, Microphone, Mouse, VGA
Keyboard	ErgoPro 105 Key
Operating system	Windows 98 or NT
Dimensions (W × D × H)	196 × 350 × 361mm
Weight	8.5kg
Warranty	3 year – 1st 12 months on-site

DESCRIPTION	PROCESSOR	RAM	HDD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Scenic eT W98	Cel 500MHz	64MB	4.3GB	64-93-15	323.86	➧	325.00	324.68	NEW
Scenic eT W98	PIII 667MHz	64MB	10GB	64-86-99	497.26	➧	499.00	498.50	NEW
Scenic eT WNT	PIII 667MHz	128MB	10GB	64-67-45	706.52	➧	709.00	708.29	NEW
Scenic eT W98	PIII 733MHz	128MB	20GB	64-86-65	797.19	➧	799.99	799.19	NEW
Scenic 15″ Monitor	–	–	–	63-18-41	116.72	➧	119.99	118.79	✂

OTHER ITEMS

FOR FUJITSU SIEMENS ACCESSORIES SEE PAGE 152
FOR MONITORS SEE PAGES 298–326

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DESKTOP/TOWER PCs

FUJITSU COMPUTERS SIEMENS



MONITOR NOT INCLUDED

The **SCENIC 560** and **600** are designed to offer the best in class performance and functionality whilst minimising the cost of ownership. Focusing on the key requirements of corporate users – security, manageability, communication and ease-of-use – these models also offer the latest technologies, high levels of component consistency and expandability to assure long product life cycles.

The SCENIC 600 is an expandable and at the same time low-profile desktop.

Particular security features implemented in the SCENIC 560 and 600 include the mechanical case lock, drive protection by means of a lockable sliding cover and anti-theft devices.

Intel Fast Ethernet 10/100 Mbit/s included on NT.

FOR TECHNICAL SERVICES SEE PAGES 23–39

Model	SCENIC 500 Micro-Tower EB	SCENIC 600 Series Desktop
Processor	Cel (333MHz) or Intel Pentium III (600MHz)	Intel Pentium PIII (600MHz)
Cache	128 or 256Kb	256Kb
RAM	64MB SDRAM	64MB SDRAM
Hard drive	4.3 or 10GB	10GB
Floppy drive	3.5" 1.44MB	
CD-ROM	40× ATAPI EIDE (not Scenic 562)	
Graphics	Matrox G200 with 8MB on PIII models	Intel 4MB (Scenic 662) Matrox G200LE 8MB on all other models
Expansion slots	2×PCI, 1×PCI/ISA, 1×AGP	2×PCI, 1×ISAPCI, 1×AGP
Ports	Serial, parallel, 2× USB, keyboard/mouse, VGA	
Drive bays	2×5.25" int, 1×3.5" int, 1×3.5" ext.	1×3.5" ext, 2×5.25" ext, 2×3.5" int.
Keyboard	KBPC O W95 with Euro key	
Operating system	Windows 98	Windows NT
Dimensions (H×W×D)	190×350×355mm	135×454×475mm
Weight (approx)	9kg	11kg
Warranty	3 years, 1 year on-site & 2 year RTB (parts & labour)	

	DESCRIPTION	PROCESSOR	RAM	HDD	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	Scenic 521 Win 98	Cel 533MHz	64MB	4.3GB	64-75-84	462.38	◆	464.00	463.54
NEW	Scenic 562 Win 98	PIII 600EBMHz	64MB	10GB	64-58-19	498.24	◆	499.99	499.49
NEW	Scenic 661 Win NT	PIII 600EMHz	64MB	10GB	64-23-21	716.49	◆	719.00	718.28
✂	15" Monitor (MCM153V)	—	—	—	63-18-41	116.72	◆	119.99	118.79

OTHER ITEMS

FOR FUJITSU/SIEMENS DESKTOP ACCESSORIES SEE PAGE 152
FOR FUJITSU/SIEMENS MONITORS SEE PAGE 325

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DESKTOP PC ACCESSORIES

FUJITSU COMPUTERS SIEMENS

SCENIC PC ACCESSORIES

DESCRIPTION	FOR USE WITH	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
32MB SDRAM DIMM (100MHz)	Scenic 3/5/6/8	63-30-95	43.96	45.99	45.53	45.07	
64MB SDRAM DIMM (100MHz)	Scenic 3/5/6/8	63-94-83	120.68	➧	125.00	123.75	
128MB SDRAM DIMM (100MHz)	Scenic 3/5/6/8	63-17-25	229.56	➧	235.99	233.63	
128MB SDRAM DIMM (100MHz) ECC	Scenic 6xx/8xx	63-49-52	194.54	➧	199.99	197.99	✂
Hard Disk Drive 12.9GB (Ultra DMA)	Scenic	63-18-79	152.53	➧	157.99	156.41	
4/8GB DAT-Drive (SCSI) 3.5" ext bay	Scenic 6xx/8xx	63-38-97	515.56	➧	529.99	524.69	
CD-ROM Drive 40x (IDE)	Scenic 3xx/5xx	63-12-61	58.74	60.99	60.38	59.78	✂
Fast Etherexpress Pro/100 (Intel)	Scenic 3xx/5xx	18-01-95	47.78	49.99	49.49	49.00	
15" MCM 153V Monitor	Scenic	63-18-41	116.72	➧	119.99	118.79	✂

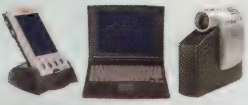
SEE WWW.ACTION.COM FOR MORE PRODUCTS

ERGOPRO PC ACCESSORIES

DESCRIPTION	FOR USE WITH	FUJITSU PART NO	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
32MB SDRAM DIMM (PC100)	eL/eD/eT	PL060200	63-36-91	70.72	73.99	73.25	72.52	✂
64MB SDRAM DIMM (PC100)	eL/eD/eT	PL060201	63-98-41	139.10	➧	142.99	141.56	
128MB SDRAM DIMM (PC100)	eL/eD/eT	PL060202	63-76-85	278.20	➧	285.99	283.13	
64MB SDRAM DIMM (PC100)	XS/XD	PL060205	63-70-52	141.04	➧	144.99	143.54	
128MB SDRAM DIMM (PC100)	XS/XD	PL060206	63-64-82	278.20	➧	285.99	283.13	
8.4GB IDE Hard Drive Ergopro	ErgoPro	PL081232	63-17-53	142.01	➧	145.99	144.53	
Travan 4 IDE int. tape drive	ErgoPro (not XS)	PL080836	63-13-45	184.82	➧	189.99	188.09	
SW DVD Kit Win 95/98	ErgoPro (not XS)	PL080848	63-68-14	116.72	➧	119.99	118.79	
HW DVD Kit Win 95/98/NT	ErgoPro (not XS)	PL080849	63-76-86	236.53	➧	244.99	242.54	
CD-Read 6× Write 2× IDE internal	ErgoPro (not XS)	PL080856	67-78-28	187.73	➧	192.99	191.06	
40× CD-ROM drive internal	ErgoPro (not XS)	PL080852	63-12-60	46.22	47.99	47.51	47.03	✂
Loudspeaker Kit (UK)	ErgoPro	PL090210	63-08-42	23.10	23.99	23.75	23.51	✂
Spare 105EE 105 key keyboard	ErgoPro	PK040678	87-73-12	28.88	29.99	29.69	29.39	
15" ErgoPro E156 monitor	ErgoPro	PD71M9J3	20-53-49	132.25	➧	135.95	134.59	

OTHER ITEMS
FOR SCANNERS SEE PAGE 346, 348
FOR MICE & POINTING DEVICES SEE PAGES 280, 288
FOR GUIDE TO SECURITY SEE PAGE 510

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status



Aero palm size PC

Colour or mono screen

Diary, contacts, notes, voice recorder, email, calculator and loads more

Flash slot for 56k modem

Instant on & touch screen

SEE PAGE 122

Aero 8000 Handheld PC - CE Professional

10" colour screen, 8-hour battery

56k modem & Smart Card security

MS Pocket Office - Powerpoint, Word, Excel

Internet Explorer and Outlook Email

SEE PAGE 124

MP1600 Microportable Projector

600 lumens display - for 'lights on' presenting

XGA autosyncing image

DLP technology

Optional video adaptor

TEMPTED?

Here are ten good reasons to give in to that temptation.

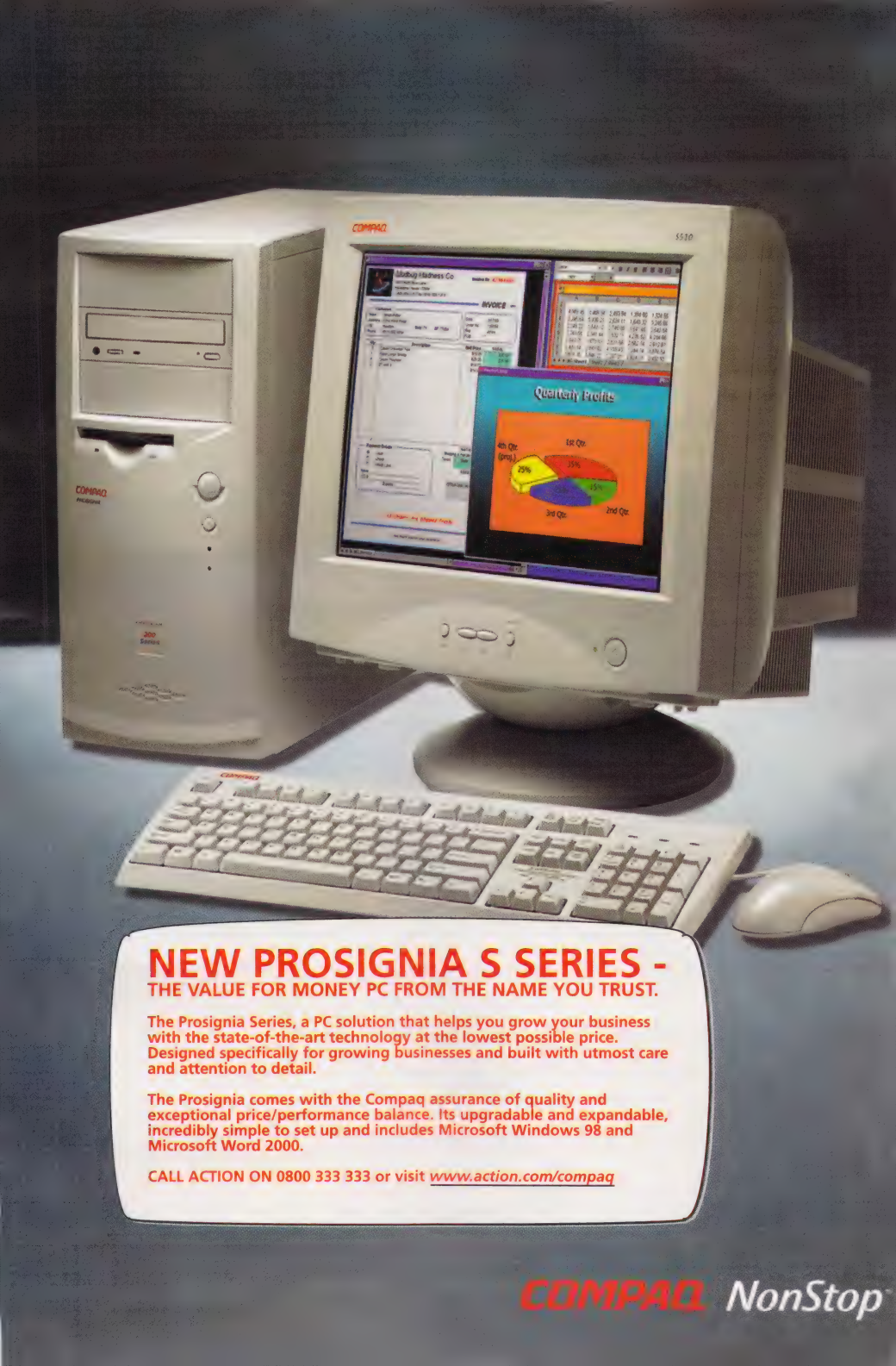
1 I'll be able to do tons more work – wherever I am.
2 Because I won't have to travel to my desk to get something out of my PC, it'll save time. And time is money.
3 I'll be able to access any information, even in my spare time. So it's certain to pay for itself.
4 It makes the company look good.
5 Our clients are impressed by gadgets. Especially such useful and cool looking gadgets.
6 I really need a personal micro projector. Really light, great picture and nice price.
7 I don't take my laptop everywhere, but I'll always have my Aero with me.
8 It's an investment in myself.
9 I know how useful it'll become, right from day one. I'll have everything with me.
10 Look, I deserve it.

For more information on our range of mobile solutions visit www.action.com or call

0800 333 333



COMPAQ NonStop™



NEW PROSIGNIA S SERIES -

THE VALUE FOR MONEY PC FROM THE NAME YOU TRUST.

The Prosignia Series, a PC solution that helps you grow your business with the state-of-the-art technology at the lowest possible price. Designed specifically for growing businesses and built with utmost care and attention to detail.

The Prosignia comes with the Compaq assurance of quality and exceptional price/performance balance. Its upgradable and expandable, incredibly simple to set up and includes Microsoft Windows 98 and Microsoft Word 2000.

CALL ACTION ON 0800 333 333 or visit *www.action.com/compaq*

COMPAQ NonStop

NEW item on this page

DESKTOP/TOWER PCs

COMPAQ



When you buy a **Compaq Deskpro EP** you can be assured that you are buying the latest technology – with the latest Intel processors, chipsets, large storage capacities and blazingly fast graphics, especially important if you plan to use the internet and multimedia applications.

All models have a unique flexible design, offering you the choice of a desktop or mini-tower configuration, prolonging the lifetime of the product.

Models ship with Matrox AGP or embedded Intel 3D graphics, 32 × CD-ROM (CDS models only), 16-bit full duplex audio featuring Compaq Premier-Sound and include Ultra ATA hard drives including fault prediction technology to indicate an impending failure, allowing time to backup before data is lost.

MONITOR NOT INCLUDED

Model	Deskpro EP Series (Celeron)	Deskpro EP Series (Pentium)
Processor	Intel Celeron (466MHz)	Intel Pentium III (600MHz)
RAM	64MB expandable to 512MB	128MB (expandable to 768MB)
Chipset	Intel i810E	Intel 440BX AGP
Cache	512KB	512KB Level 2
Hard drive	SMART Ultra ATA 6.4GB	
Floppy drive	3½" 1.44MB	
CD-ROM drive	Optional 32 × speed	
Graphics controller	Embedded Intel 3D graphics with 4MB cache not upgradeable	Matrox Millennium G200 AGP 2 × with 8MB SGRAM (exp. to 16MB)
Expansion slots	4PCI 1PCI/15A/115A	3 × PCI, 1 × ISA, 1 × PCI/ISA, 1 × AGP
Drive bays	2 × internal, 3 × external	
Ports	Parallel, 2 × serial, 2 × USB, keyboard, mouse VGA	
Operating system	Windows 95/NT	Windows W95/98 or WNT
Dimensions (W × D × H)	448 × 435 × 168mm	
Warranty	Three years parts replacement, first 12 months on-site	

ACTION ON-SITE PC INSTALLATION £60.00
CAT NO 29-94-77

	DESCRIPTION	PROCESSOR	RAM	HDD	OPS SYS	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	Deskpro EP	CEL466	64MB	6.4GB	W95	63-95-60	403.58	➧	405.00	404.60
NEW	Deskpro EP	CEL466	64MB	6.4GB	WNT	63-19-37	453.41	➧	455.00	454.55
	Deskpro EP CDS	PIII600	128MB	10GB	W95/98	63-27-98	716.49	➧	719.00	718.28
	Deskpro EP CDS	PIII600	128MB	10GB	MNT	63-82-32	766.31	➧	769.00	768.23
	Deskpro EP CDS	PIII 600MHz	128MB	10GB	W2K	63-19-30	766.31	➧	769.00	768.23

ACCESSORIES	PART NO	CAT NO				
Compaq S710 17" Colour Monitor	154499-031	63-18-90	165.25	➧	167.99	166.98
Compaq 64MB Memory	166613-B21	64-01-16	91.91	94.00	93.44	92.88
Compaq Intel Pro/100+ Management ADP	127453-B21	63-37-02	39.10	39.99	39.75	39.51
Compaq DeskPro 3 year On-Site Next Business Day	324405-002	63-18-67	66.45	69.00	68.31	67.63

OTHER ITEMS

FOR COMPAQ MONITORS SEE PAGES 320, 321
FOR COMPAQ ACCESSORIES SEE PAGES 160, 163

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DESKTOP/TOWER PCs

COMPAQ

The **Deskpro EP Series** offers a broad range of models to deliver highly competitive products with the right set of features at the right price. It achieves an excellent long term value by combining mainstream to next-generation, industry-standard technologies in a highly flexible design.
Compaq have updated their range of performance models of the Deskpro EP Series of PCs to feature Pentium III processors.
These systems feature a 100MHz Front Side Bus which significantly increases overall PC performance and to support this they are equipped with Intel's 440BX AGP set.



NEW RANGE MID-JUNE
See www.action.com for details

MONITOR NOT INCLUDED

Model	Deskpro EP Series
Processor	Intel Pentium III 600MHz
RAM	64 or 128MB SDRAM (expandable to 512MB)
Cache	512KB Level 2
Hard drive	6.4GB
Floppy drive	3.5" 1.44MB
CD-ROM drive	Optional
Graphics controller	Embedded Intel 3D Graphics 4MB cache not upgradeable
Expansion slots	4 × PCI, 2 × PCI/ISA, 2 × ISA
Drive bays	2 × internal, 3 × external
Ports	Parallel, 2 × serial, 2 × USB, keyboard, mouse, VGA
Keyboard	Compaq enhanced
Operating system	Windows 95/98, NT or W2K
Dimensions (W × D × H)	448 × 435 × 168mm
Warranty	Three years parts replacement, first 12 months on-site

ACTION ON-SITE PC INSTALLATION £60.00
CAT NO 29-94-77

DESCRIPTION	PROCESSOR	RAM	HDD	OP SYS	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Deskpro EP	PIII 600MHz	64MB	6.4GB	W95/98	63-54-50	576.98	➧	579.00	578.42
Deskpro EP	PIII 600MHz	64MB	6.4GB	WNT	63-95-54	626.80	➧	629.00	628.37
Deskpro EP	PIII 600MHz	64MB	6.4GB	W2K	63-32-05	752.36	➧	755.00	754.25
ACCESSORIES					**PART NO**	**CAT NO**			
Compaq S710 17" Colour Monitor					154499-031	63-18-90	165.25	➧	167.99	166.98
Compaq 64MB Memory					166613-B21	64-01-16	91.91	94.00	93.44	92.88
Compaq Intel Pro/100+Management ADP					127453-B21	63-37-02	39.10	39.99	39.75	39.51
Compaq DeskPro 3 Years On-site Next Business Day					324405-002	63-18-67	66.45	69.00	68.31	67.63

OTHER ITEMS
FOR COMPAQ ACCESSORIES SEE PAGES 161–163

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▸▸ Save £££'s!
▸▸ Check live stock
▸▸ Track order status

Lower prices on-line at action.com

DESKTOP PCs

COMPAQ



63-18-75

The **Desktop EP series** of PCs feature Pentium III processors with speeds now up to an incredible 700MHz and hard drives of 10GB.

All models have a unique flexible design, offering you the choice of a desktop or mini-tower configuration, prolonging the lifetime of the product.
The processors are covered by Fault Protection and Prefailure Warranty allowing free replacement of a faulty processor before failure occurs.

NEW RANGE MID-JUNE
See www.action.com for details

MONITOR NOT INCLUDED

Model	Deskpro EP Series
Processor	Pentium III (650 or 700MHz)
RAM	128MB SDRAM (expandable to 768MB)
Cache	512KB Level 2
Hard drive	10GB SMART with fault prediction
Floppy drive	3.5" 1.44MB
CD-ROM drive	40 speed
Sound card	Soundblast PCI Audio 128V
Graphics controller	Matrox Millennium G400-SG AGP Graphics 10/16MB
Expansion slots	3 × PCI/2 × ISA1 × PCI/ISA 2 × PCI (1 slot used on NIC models), 2 × PCI/ISA or 1 × AGP
Drive bays	1 × internal, 3 × external
Ports	2 × serial, parallel, 2 × USB, keyboard, mouse, VGA, 4x audio. (1 × RJ-45 port on models with NICs)
Keyboard	Compaq enhanced keyboard with Euro key
Operating system	Windows 95 or Windows NT
Dimensions (W × D × H)	483 × 406 × 146mm
Warranty	Three years parts replacement, first year on-site

DESCRIPTION	PROCESSOR	RAM	HDD	OP SYS	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Deskpro EP CDS	PIII 650MHz	128MB	10GB	W95/98	63-18-75	746.38	▶	749.00	748.25
Deskpro EP CDS	PIII 650MHz	128MB	10GB	WNT	63-31-71	792.22	▶	795.00	794.21
Deskpro EP SSD	PIII 700MHz	128MB	10GB	W95/98	63-54-26	812.15	▶	815.00	814.19
Deskpro EP SSD	PIII 700MHz	128MB	10GB	WNT	63-95-38	861.98	▶	865.00	864.14

ACCESSORIES	PART NO	CAT NO				
Compaq S710 17" Colour Monitor	154499-031	63-18-90	165.25	▶	167.99	166.98
Compaq 128MB Memory	166614-B21	64-01-23	184.92	▶	187.99	186.86
Compaq Intel Pro 1100+ Management ADP	127453-B21	63-37-02	39.10	39.99	39.75	39.51
Compaq Carepaq 3 Years On-Site Next Business Day	324405-022	63-18-67	66.45	69.00	68.31	67.63

OTHER ITEMS

FOR COMPAQ ACCESSORIES SEE PAGES 178, 179
FOR COMPAQ MONITORS SEE PAGES 320, 321

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶Save £££'s!
▶▶Check live stock
▶▶Track order status

DESKTOP PCs

COMPAQ

The technologies that have been integrated into this personal computer have staying power and will provide a stable and consistent platform throughout the product life.
Featuring the new 100MHz front side bus to significantly boost performance, they also include a full set of Intelligent Manageability solutions that deliver easy centralised control and management throughout the PC lifecycle..

NEW RANGE MID JUNE PLEASE CHECK www.action.com FOR DETAILS

MONITOR NOT INCLUDED



63-91-73

Model	Deskpro EN
Processor	Intel Pentium III (600MHz)
RAM	64 or 128MB SDRAM (100MHz) (expandable to 768MB)
Cache	512KB Level 2
Hard drive	10 GB
Floppy drive	3.5" 1.44MBMB
CD-ROM drive	32× speed max. on CDS models
Sound card	16-bit full duplex audio with Compaq Premier Sound™
Graphics controller	ATI RAGE Pro Turbo AGP – 8MB
Expansion slots	2×PCI, 2×PCI/ISA or 1× AGP
Drive bays	1×internal, 3×external
Ports	2×serial, 1×parallel, 2× USB, keyboard/mouse, VGA, 4× audio
Keyboard	Compaq enhanced keyboard with Euro key
Operating system	Windows 95 or NT
Dimensions (W×D×H)	483×407×146mm
Warranty	Three year warranty

WARRANTY:
3 Years Parts Labour, 3 Years Labour and 3 Years On-Site service next business day limited warranty

DESCRIPTION	PROCESSOR	RAM	HDD	OP SYS	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Deskpro EN	PIII 600MHz	64MB	10GB	Win 95	63-91-73	692.57		695.00	694.31
Deskpro EN	PIII 600MHz	64MB	10GB	Win NT	63-51-99	736.42		739.00	738.26
Deskpro EN CDS	PIII 600MHz	128MB	10GB	Win 95	63-40-13	816.14		819.00	818.18
DeskPro EN CDS	PIII 600MHz	128MB	10GB	Win NT	63-60-68	861.98		865.00	864.14
DeskPro EN CDS	PIII 660MHz	128MB	10GB	Win 2K	63-32-06	861.98		865.00	864.14

ACCESSORIES	PART NO.	CAT NO			
Compaq S710 17" Colour Monitor	154499-031	63-18-90	165.25	167.99	166.98
Compaq 128MB Memory	166614-B21	64-01-23	184.92	187.99	186.86
Compaq Carepaq DeskPro Support On-Site 4HR-9x5 Response	376916-022	29-53-45	201.78	209.00	206.91

OTHER ITEMS

FOR COMPAQ ACCESSORIES SEE PAGES 178, 179
FOR COMPAQ MONITORS SEE PAGES 320, 321

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DESKTOP PCs

COMPAQ



The **Deskpro EN Series Space Saver Desktop** is the right choice for enterprise customers who require a full-featured PC in a small, highly integrated design that offers leading manageability, serviceability and consistency.

Compaq engineers have designed ingenious tool-free accessibility that enhances serviceability in this Small Form Factor chassis. The Space Saver Desktop may be placed on a desktop or mounted underneath the desktop via an optional mounting bracket. The strong case, which is 35 to 50% smaller than conventional desktop PCs, can support monitors up to 21 inches and 100 pounds.
All models include a 10/100 TX PCI card and 16-bit sound card.

MONITOR NOT INCLUDED

Model	Deskpro EN	Deskpro EN SSD Series
Processor	Intel Pentium III (650MHz)	Intel Pentium III (600MHz)
RAM	64MB SDRAM (expandable to 768MB)	64 or 128MB SDRAM (expandable to 512MB
Cache	512KB Level 2	
Hard drive	10GB	
Floppy drive	Removable 3.5" 1.44MB	
CD-ROM drive	32 Speed	24× speed (on CDS models)
Sound card	16-bit full duplex audio with Compaq Premier Sound	
Graphics controller	ATI RAGE Pro Turbo AGP 2X Graphics with 8MB SGRAM	Embedded ATI Rage Pro Turbo 2X Graphics with 4MB SGRAM (Expandable to 8MB)
Network card	Intel Pro/100+ Management Adapter w/AOL	
Ports	2×USB, 2×serial, parallel, keyboard/mouse, VGA, 4×audio	
Expansion slots	2×PC1, 2×PCI/ISA, 1 x AGP	1 x PCI, 1 x PCI/ISA
Keyboard	Compaq enhanced keyboard with Euro key	
Operating system	Windows 95/98 or Windows NT	
Dimensions (W×D×H)	483×407×146mm	310×311×90mm
Warranty	3 years parts labour, 3 years labour and 3 year on site service Next Business Day Limited Warranty	

WINDOWS NT VERSIONS ALSO AVAILABLE

	DESCRIPTION	PROCESSOR	RAM	HDD	OP SYS	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	Deskpro EN CDS	PIII 650MHz	128MB	10GB	W95/98	64-32-76	865.96	➧	869.00	868.13
NEW	Deskpro EN CDS	PIII 650MHz	128MB	10GB	WNT	64-95-84	911.80	➧	915.00	914.09
	Deskpro EN SSD	PIII 600MHz	64MB	10GB	W95	63-15-24	722.47	➧	725.00	724.28
	Deskpro EN SSD	PIII 600MHz	64MB	10GB	WNT	64-62-58	1907.35	➧	➧	1915.00
	Deskpro EN SSD CDS	PIII 600MHz	128MB	10GB	W95	63-31-50	776.28	➧	779.00	778.22

ACCESSORIES	PART NO	CAT NO				
Compaq S710 17" Colour Monitor	154499-031	63-18-90	165.25	➧	195.95	166.98
Compaq 128MB Memory	166614-B21	64-01-16	91.91	94.00	93.44	92.88
Compaq Carepaq DeskPro Support On-Site 4HR-9×5 Response	376916-022	29-53-45	201.78	➧	209.00	206.91

OTHER ITEMS
FOR COMPAQ DESKTOP ACCESSORIES SEE PAGES 178, 179
FOR COMPAQ MONITORS SEE PAGES 320, 321

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DESKTOP PCs

COMPAQ

Compact, practical, yet fully featured, the **Deskpro EN Space Saver Desktop** is ideal for those who need to compromise on space – but nothing else. With up to 50% smaller footprint than a classic desktop model and available with an optional under-desk mounting bracket, the Deskpro EN Space Saver Desktop fits unobtrusively into the smallest workspaces. Yet they still come with all the features of standard Compaq Desktop models, including full manageability, easy access for upgrades and servicing without sacrificing performance. Compaq helps simplify the configuration and installation of new Deskpro EN Desktops in corporate environments by providing tools and processes for configuring a customer's system with consistent software images, including the operating system, device drivers and firmware.
All PII 667 and 733MHz models include the **new i820 Chipset**.



63-34-70

intel inside
pentium III

MONITOR NOT INCLUDED

Model	Deskpro EN SSD Series (PIII)
Processor	Intel Pentium III (600 or 650MHz)
RAM	128MB (expandable to 512MB)
Cache	512KB Level 2
Hard drive	10GB SMART
Floppy drive	Removable 3.5" 1.44MB
CD-ROM drive	24× PIII 600/32× PIII 650
Sound card	16-bit full duplex audio with Compaq Premier Sound™
Graphics controller	ATI RAGE Pro AGP 2X 4MB SGRAM (exp to 8MB)
Ports	2×USB, 2×serial, parallel, keyboard/mouse, VGA, 4×audio
Expansion slots	1×PC1, 1×PCI/ISA Combo (1 x int, 2 x ext drive bays)
Keyboard	Compaq enhanced keyboard with Euro key
Operating system	Windows 95/98 or Windows NT
Dimensions (W×D×H)	310×311×90mm
Warranty	Three years warranty

NEW RANGE MID-JUNE PLEASE CHECK www.action.com FOR DETAILS

WARRANTY:
3 Years Parts Labour, 3 years Labour and 3 Year On-Site service next business day limited warranty

DESCRIPTION	PROCESSOR	RAM	HDD	OP SYS	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Deskpro EN SSD CDS	PIII 600MHz	128MB	10GB	WNT	63-34-70	895.86	♦	899.00	898.10	
Deskpro EN SSD CDS	PIII 600MHz	128MB	10GB	W2K	63-19-31	822.12	♦	825.00	824.18	
Deskpro EN SSD CDS	PIII 650MHz	128MB	10GB	W95/98	64-19-81	826.10	♦	829.00	828.17	NEW
Deskpro EN SSD CDS	PIII 650MHz	128MB	10GB	WNT	64-23-32	871.94	♦	875.00	874.13	NEW

DESCRIPTION	DISPLAY SIZE	CAT NO				
Compaq S710 17" Colour Monitor	154499-031	63-18-90	165.25	♦	195.95	166.98
Compaq 128MB Memory	166614-B21	64-01-23	184.92	♦	187.99	186.86
Compaq Carepaq DeskPro Support On-Site 4HR-9×5 Response	376916-022	29-53-45	201.78	♦	209.00	206.91

OTHER ITEMS

FOR COMPAQ DESKTOP ACCESSORIES SEE PAGES 178, 179
FOR COMPAQ MONITORS SEE PAGES 320, 321

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

WORKSTATIONS

COMPAQ



The **Deskpro Workstation AP250** from Compaq is a cost-effective PC designed with exceptional performance and features. With its affordable single processor systems based on industry standard technology, designed for users who do not require mulit-processor support. Feature the latest Intel Pentium® III processors, fast 2D and 3D graphics, and a choice of high performance hard drives.

See www.Action.Com/compaq for more info

MONITOR NOT INCLUDED

Model	Workstation AP250 (Desktop)
Processor	Intel Pentium III (733 or 866MHz)
Cache	256KB
RAM	128MB expandable to 512MB
Hard Drive	9.1 or 20GB (10,000rpm) Ultra 3 SCSI
Floppy Drive	3.5" 1.44MB
CD-ROM drive	40×
Graphics controller	ELSA Synergy II Graphics, 3D Labs Oxygen GVX1, Matrox Millennium G400
Keyboard	Compaq Enhanced
Expansion slots	4×PCI, 1×PCI/ISA, 1×ISA, 1×AGP
Operating system	Windows NT 4.0
Dimension (W×D×H)	168×435×448mm
Warranty	3 year parts, 3 year on-site service and 3 years labour limited warranty

	DESCRIPTION	RAM	HDD	GRAPHICS	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	Workstation AP250 6/733	128MB	9.1GB-S	G400	63-70-76	1640.89	➧	➧	1645.00
	Workstation AP250 6/733	128MB	9.1GB-S	Syn2	63-23-17	1445.38	➧	➧	1449.00
	Workstation AP250 6/733	128MB	9.1GB-S	OXY	63-12-91	1734.66	➧	➧	1739.00
NEW	Workstation AP250 6866	128MB	9.1GB-S	SYN2	63-54-58	1864.33	➧	➧	1869.00
NEW	Workstation AP250 6866	128MB	9.1GB-S	G400	63-95-62	1944.13	➧	➧	1949.00
NEW	Workstation AP250 6866	128MB	20GB-S	G400 Dual	63-19-49	4218.43	➧	➧	4229.00

DESCRIPTION	PART NO	CAT NO				
Compaq S710 17" Colour Monitor	154499-031	63-18-90	165.25	➧	195.95	166.98
Compaq 128MB RDRAM 40NS RIMM	103989-B21	29-53-63	613.81	➧	623.99	620.25
Workstation 3 years on-site 4 hour response 9×5 Workthrough	376917-022	29-17-19	201.78	➧	209.00	206.91

OTHER ITEMS

FOR COMPAQ ACCESSORIES SEE PAGES 145, 165
FOR COMPAQ MONITORS SEE PAGES 320, 321

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DESKTOP PC ACCESSORIES

COMPAQ

DESCRIPTION	FOR USE WITH	PART NO	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
CD-ROM/CD-RW/DVD								
10/40× DVD-ROM	DeskPro EP/EN	294414-B21	63-12-87	85.55	87.49	86.97	86.44	
24× Slim CD-ROM New Bezel	DeskPro EN SSD	124726-B21	63-08-64	58.66	59.99	59.63	59.27	
24× Slim CD-ROM (OPAL)	DeskPro EN SSD	294358-B21	63-33-98	58.66	59.99	59.63	59.27	
32× CD-RW IDE	DeskPro EP/EN	294407-B21	63-70-82	157.39	◗	160.00	159.04	
6/24× Slimline DVD-ROM	DeskPro EN SSD	144386-B21	63-19-18	163.28	◗	165.99	164.99	
Internal 40× (IDE)	DeskPro EP/EN	388116-B21	63-39-31	47.19	49.00	48.51	48.02	NEW
12/40× DVD-ROM	DeskPro EP/EN	177569-B21	63-28-06	94.84	97.00	96.42	95.84	
HARD DISKS								
20GB Ultra ATA HDD (7200RPM)	All D/pros & AP250	124724-B21	63-19-46	161.31	◗	163.99	163.01	NEW
27GB Ultra ATA HDD (7200RPM)	All D/pros & AP250	161610-B21	62-64-64	184.92	◗	187.99	186.86	NEW
6.4GB Ultra ATA HDD (5400RPM)	All Deskpros	124721-B21	63-17-50	116.06	◗	117.99	117.28	
9.1GB Wide Ultra SCSI-2 HDD	All D/pros & AP250	120204-B21	63-22-91	229.19	◗	232.99	231.59	
10GB Ultra ATA HDD (7200RPM)	All D/pros & AP250	127452-B21	63-49-67	138.69	◗	140.99	140.14	
13.5GB Ultra ATA HDD (7200RPM)	All D/pros & AP250	124723-B21	63-70-49	155.41	◗	157.99	157.04	
18.2GB 1-inch Ultra SCSI-3	AP250	147503-B21	63-70-83	442.66	◗	450.00	447.30	NEW
18.2GB Wide Ultra SCSI-3	AP250	159764-B21	63-50-00	457.41	◗	465.00	462.21	NEW
9.1GB Wide Ultra SCSI-2	AP250	155356-B21	63-13-00	303.96	◗	309.00	307.15	NEW
9.1GB Wide Ultra SCSI-3	AP250	159763-B21	63-08-80	284.81	◗	295.00	292.05	NEW
MEMORY(100MHz SDRAM)								
32MB SDRAM ECC	All Deskpros	166616-B21	64-01-47	75.28	76.99	76.53	76.07	
64MB SDRAM ECC	All Deskpros	166617-B21	64-01-54	114.10	◗	115.99	115.29	
128MB SDRAM ECC	All Deskpros	166618-B21	64-01-61	228.20	◗	231.99	230.60	
256MB SDRAM ECC	All Deskpros	102307-B21	63-31-21	480.03	◗	487.99	485.06	
32MB SDRAM	All Deskpros	166612-B21	64-01-09	70.72	73.99	73.25	72.52	
64MB SDRAM	All Deskpros	166613-B21	64-01-16	91.91	94.00	93.44	92.88	
128MB SDRAM	All Deskpros	166614-B21	64-01-23	184.92	◗	187.99	186.86	
256MB SDRAM	All Deskpros	102306-B21	63-17-98	403.30	◗	409.99	407.53	
MEMORY RAMBUS								
128MB ECC RDRAM 800MHz	AP250	157338-B21	63-28-03	383.64	◗	390.00	387.66	
128MB RDRAM 40ns RIMM	D/PRO EN/SSD/AP250	103989-B21	29-53-63	613.81	◗	623.99	620.25	
256MB ECC RDRAM 800MHz	AP250	157341-B21	62-12-46	939.42	◗	955.00	949.27	

OTHER ITEMS

FOR TECHNICAL SERVICES SEE PAGES 23–39

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW item on this page

DESKTOP ACCESSORIES

COMPAQ

	DESCRIPTION	FOR USE WITH	COMPAQ PART NO	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	MONITORS							
NEW	S510 MPRII 15" Monitor	All D/pros & AP250	168636-032	63-19-44	104.26	◗	105.99	105.35
	S710 17" Monitor	All D/pros & AP250	154499-031	63-18-90	165.25	◗	167.99	166.98
NEW	S710 17" Monitor (Carbon)	All D/pros & AP250	154499-023	63-54-57	190.61	◗	195.95	193.99
	V700 TCO 17" Monitor	All D/pros & AP250	325800-031	20-38-95	205.54	◗	208.95	207.70
	V75 TCO 17" Monitor (Carbon)	All D/pros & AP250	307710-023	63-98-54	238.05	◗	242.00	240.55
	S900 TCO 19" Monitor	All D/pros & AP250	360562-031	63-62-78	322.96	◗	332.00	328.68
NEW	S910 TCO 19" Monitor	All D/pros & AP250	138485-031	63-76-93	309.86	◗	315.00	313.11
	P900 19" Trinitron Monitor	All D/pros & AP250	386326-031	62-17-17	389.06	◗	399.95	395.95
	V1100 TCO 21" Monitor	All D/pros & AP250	386472-031	63-32-00	567.54	◗	576.95	573.49
	P1100 21" Trinitron Monitor	All D/pros & AP250	325606-031	63-70-21	188.27	◗	195.00	193.05
	P1610 TCO 24" Monitor	All D/pros & AP250	325500-021	88-53-45	1302.33	◗	◗	1315.99
	TFT 5000S 15" Flat Panel	All D/pros & AP250	104751-021	63-31-99	752.52	◗	765.00	760.41
NEW	TFT 5010 15" Flat Panel	All D/pros & AP250	104741-021	64-32-55	774.16	◗	787.00	782.28
	TFT 7000 17" Flat Panel	All D/pros & AP250	136143-021	48-12-61	1449.79	◗	◗	1465.00
	MULTIMEDIA							
NEW	Compaq Microphone	Deskpro EP/EN/SDD	103589-B21	63-19-48	8.80	9.00	8.95	8.89
	PS115 Premier Speakers	All D/pros & AP250	133566-031	63-19-32	257.77	◗	264.99	262.34
NEW	SoundBlaster 128V PCI Audio	Deskpro EP/EN/SSD	388550-B21	63-19-38	17.59	17.99	17.88	17.77
	SECURITY							
	Basic Smart Card Keyboard	Deskpro EP/EN/SSD	115506-036	63-22-92	41.81	42.00	41.96	41.92
	Basic Smart Card Reader	Deskpro EP/EN/SSD	113771-B21	63-12-70	44.00	45.00	44.73	44.46
	Enhanced Smart Card Keyboard	Deskpro EP/EN/SSD	115504-036	63-70-50	41.81	42.00	41.96	41.92
	Enhanced Smart Card Reader	Deskpro EP/EN/SSD	113784-B21	63-49-68	61.63	64.00	63.36	62.73
	Fingerprint Login Device	Deskpro EP/EN/SSD	294307-B21	63-11-56	54.88	56.99	56.42	55.86
	POWER PROTECTION							
NEW	T/1000 Uninterruptible Power Supply (US)	AP250	242688-001	25-30-87	320.04	◗	329.00	325.71
	Uninterruptible Power Supply T/1000h	AP250	242688-002	49-31-19	337.95	◗	342.85	341.85
	Uninterruptible Power Supply T/700h	AP250	295372-B22	49-18-07	275.95	◗	280.95	279.95
NEW	Uninterruptible Power Supply 500VA (tower)	Deskpro EN/SSD	136386-B31	25-70-22	102.14	◗	105.00	103.95

OTHER ITEMS

FOR TECHNICAL SERVICES SEE PAGES 23–39
FOR COMPAQ MONITORS SEE PAGES 320, 321

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DESKTOP PC ACCESSORIES

COMPAQ

DESCRIPTION	FOR USE WITH	PART NO	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
NETWORK CARDS								
Intel Pro/100+Management Adaptor WOL AOL	All D/pros & AP250	127453-B21	63-37-02	39.10	39.99	39.75	39.51	
NC3122 Dual Port 10/100 TX PCI Intel UTP NIC	AP250	317450-B21	63-95-04	162.45	➧	167.00	165.33	
NC3123 Intel 10/100 PCI Wake on LAN NIC	AP250	174830-B21	63-53-83	55.86	58.00	57.42	56.85	
NC3131 64-bit PCI Dual Port 10/100 Controller	AP250	338456-B21	26-40-80	201.35	➧	206.99	204.92	
NC3132 Dual Port 10/100 TX Upgrade Module for NC3131	AP250	338456-B22	52-97-22	152.06	➧	157.50	155.93	
NC4621 PCI 4/16 WOL Token Ring NIC	All D/pros & AP250	379956-B21	63-27-94	96.29	99.99	98.99	98.00	
REMOVABLE STORAGE								
1.44MB Floppy Drive Kit	D/pro EP/EN/SSD	294164-B21	25-74-51	35.20	36.00	35.78	35.57	
100MB ZIP ATAPI Drive	AP250	401475-B21	25-53-45	64.52	65.99	65.59	65.20	NEW
2X SuperDisk Drive	D/pro EP/EN/SSD	388117-B21	25-94-75	62.43	62.99	62.83	62.68	NEW
6X/32X DVD Drive	AP250	402555-B21	25-17-20	120.00	➧	121.99	121.26	NEW
Compaq ZIP 100 Drive	Deskpro EP/EN	294402-B21	25-70-23	49.54	49.99	49.87	49.74	NEW
STORAGE:								
Wide Ultra-2 SCSI Controller	All D/pros & AP250	124720-B21	63-53-91	110.08	➧	111.91	111.24	
TR5 Backup Tape Drive	Deskpro EP/EN	294243-B21	63-76-66	1257.06	➧	➧	1289.00	
12/24GB DAT Cartridge (10 pack)	AP250	295515-B21	24-20-26	197.92	➧	205.00	202.95	
DAT Cleaning Cartridge	AP250	242781-001	63-17-42	10.50	10.99	10.88	10.77	
WIRELESS NETWORKING								
11Mbps Wireless LAN WL200 PCI Card	D/pro EN/SSD	146929-B31	64-32-86	127.16	➧	127.99	127.67	NEW
11Mbps Wireless LAN WL400 Access Point	D/pro EN/SSD	158603-031	64-28-11	577.41	➧	586.99	583.47	NEW
OTHER OPTIONS								
3 Button Mouse (Opal)	D/pro EP/EN/SSD	269192-B22	63-50-01	21.51	22.00	21.87	21.74	NEW
ScrollMouse	D/pro EP/EN/SSD	170299-B31	64-19-05	11.84	11.95	11.92	11.89	
Two Button Mouse (Opal)	D/pro EP/EN/SSD	143315-B21	71-99-99	7.62	7.79	7.74	7.70	
Serial/ECP Parallel Interface Board-ISA	D/pro EP/EN/SSD	294293-B21	26-25-87	21.02	21.50	21.37	21.24	

OTHER ITEMS

FOR COMPAQ MONITORS SEE PAGES 320, 321
FOR COMPAQ DESKTOP PCs SEE PAGES 153–160

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

DESKTOP PCs

TOSHIBA



64-31-94

MONITOR NOT INCLUDED

Bringing you the best of both worlds of next generation notebook and desktop technologies combined in a slimline, ultra-stylish desktop PC, **Toshiba's** new **Equium 2000** is a true masterpiece of design and engineering.

Its specification is that of an advanced desktop system, but takes up minimal space and has a high resolution TFT display just like a notebook. The wafer thin 15″ digital monitor is integrated into the compact design, and therefore requires less than one third of the desk space of a conventional desktop PC.

The **3200M** desktop PC combines outstanding performance and reliability with great value-for-money. They are highly specified entry-level machines with functionality usually only associated with more advanced systems.

With powerful Intel Pentium III processors running at up to 700MHz, 128MB RAM and 13GB disks as standard.

Model	Equium 2000	Equium 3200M
Processor	Intel Celeron (500MHz)	Intel PIII (600–700MHz)
RAM	64MB SDRAM (expandable to 192MB)	128MB (expandable to 256MB)
Hard drive	6GB	8.0GB
Floppy drive	3.5″ 1.44MB	
CD-ROM drive	24 speed max	40 speed
Sound Card	SoundBlaster Pro compatible 16-bit stereo	Aureal 8808, Sound Blaster Pro compatible, 16-bit stereo sound
Graphics controller	ATI Rage 128VR 3D with 8MB SGRAM	nVIDIA RIVA TNT 128 AGP 8MB SDRAM
Display	15″ TFT LCD	Not included
Keyboard	102 Key USB Board	105 keys
Expansion slots	—	2×PCI, 1×ISA
Drive bays	—	5×Drive Bays: Int 2×3.5″; Ext 1×3.5″, 2×5.25″
Ports	2×USB (without external hub) 1×RJ-45 LAN 1×infra-red, 2×PC Card Type II or 1×PC Card Type III	
Network support	100 Base-TX. 10Base-T LAN	—
Power Supply	Autosensing 100-240V AC Adaptor	
Operating system	Windows 98	Windows 95/98 dual boot pre-installed
Dimensions (W×D×H)	350×212×389mm	181×396×363mm
Weight	5.8kg	13kg
Warranty	Three years on-site	Three years parts replacement, first 12 months on-site

SEE PAGE 80 FOR IMAGE OF EQUIUM 2000

DESCRIPTION	PROCESSOR	RAM	HDD	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Equium 2000 (002UK)	C500	64MB	6.0GB	64-19-49	1505.23	➧	➧	1509.00
Equium 3200M (367UK)	PIII600MHz	128MB	13GB	64-31-94	720.30	➧	725.00	723.19
Equium 3200M (446UK)	PIII650MHz	128MB	13GB	64-54-33	813.69	➧	819.00	816.95
Equium 3200M (4B0UK)	PIII700MHz	128MB	13GB	64-95-38	932.91	➧	939.00	936.65

OTHER ITEMS

FOR TOSHIBA ACCESSORIES SEE PAGE 145

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DESKTOP PCs

TOSHIBA

For users seeking the ultimate in Toshiba performance, the **Equium 7100S** series are now available with Pentium III processors up to 600MHz, offering the power and performance to provide greater productivity, increased manageability and enhanced internet experience.

To save time and minimise servicing costs while maximising user productivity the Equium 7100S desktop PCs also incorporate Desktop Management Interface and LANDesk Client Manager which support local and remote system monitoring and updating. **Equium 7100D series** desktop PCs incorporate a range of features to help reduce the total cost of ownership, including NXL architecture, which allows any motherboard types to suit different applications. Sate-of-the-art management programs also reduce operating costs and minimise system down time by supplying local and remote system monitoring, configuring and updating. Other pioneering features include the Equium 7100's ingenious swivel-out feet that allow the PC chassis to be positioned vertically on the desk to save space.



MONITOR NOT INCLUDED

Model	Equium 7100S Series	Equium 7100D Series
Processor	Intel Pentium III (550 or 600MHz)	Pentium III (600MHz)
RAM	64MB SDRAM (expandable to 512MB)	
Hard drive	8, 10 or 13GB	
Floppy drive	Modular 3½" 1.44MB	
CD-ROM drive	32x	32x max EIDE
Sound Card	Crystal CS4236B SoundBlaster & Windows Sound System Compatible	
Graphics	ATI 3D Rage Pro (AGP) 4MB VRAM	
Expansion slots	1 × PCI, 1 × PCI/ISA	3 × PCI, 1 × PCI/ISA
Drive bays	1 × ext 3.5", 1 × int 3.5", 1 × ext 5.25"	2 × ext 3.5", 1 × int 3.5", 2 × ext 5.25"
Ports	Serial, parallel, VGA, keyboard, mouse 2 × USB	Serial, parallel, VGA, keyboard, mouse
Operating system	Windows 95/98 dual boot or Windows NT	Windows 95/98
Dimensions (W × D × H)	409 × 377 × 98mm	445 × 432 × 140mm
Weight	13kg	
Warranty	Three years on-site	

14 DAY RETURNS POLICY APPLIES

for terms and conditions see pages 1075-1076

DESCRIPTION	PROCESSOR	RAM	HDD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Equium 7100S (C55UK) Win 95/98	PIII 550MHz	64MB	8GB	64-19-59	492.77	▶	495.99	494.75	NEW
Equium 7100S (C63UK) CD Win 95/98	PIII 550MHz	64MB	10GB	63-40-14	624.92	▶	629.00	627.43	
Equium 7100S (D93UK) CD Win 95/98	PIII 600MHz	64MB	13GB	63-52-01	724.27	▶	729.00	727.18	
Equium 7100D NT (D94UK) Win NT	PIII600MHz	64MB	13GB	63-91-74	1046.38	▶	▶	1049.00	
Tekbright 520 15" monitor	—	—	—	94-73-88	155.59	▶	159.95	158.35	
Tekbright 720 17" monitor	—	—	—	12-11-14	268.44	▶	275.95	273.19	

OTHER ITEMS

FOR TOSHIBA ACCESSORIES SEE PAGE 145

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶ Save £££'s!
▶▶ Check live stock
▶▶ Track order status

NEW item on this page

DESKTOP PCs

TOSHIBA



64-20-00

Toshiba's innovative **Equium 7 series** are a range of slimline desktop PCs – ideal for either mainstream computing or environments where a space-saving format, without compromising power and performance, is important. The wide range of Equium 7 series desktop PCs feature a variety of processor speeds and operating systems – simply choose the machine that best matches your needs.

Built for cost-effective expandability, the Equium 7 series is designed to support the most intensive and demanding applications, to adapt to changing future needs and to reduce total cost of ownership. With the ultra-fast and ultra-reliable Intel® Celeron™ and Intel® Pentium® III processors with clock speeds up to 800MHz. The Equium 7 series is the ideal

Model	Equium 7350S
Processor	Intel Celeron (500MHz) or Intel Pentium III (600, 664, 733 or 800MHz)
RAM	64MB or 128MB (expandable to 512MB SDRAM)
Hard drive	10.0 or 15.0GB
CD-ROM drive	40 speed
Sound	Integrated AC'97 compatible 16-bit stereo
Expansion slots	2 × PCI
Drive bays	1 × Internal 3.5" (HDD), 1 × Front access 3½" (FDD), 1 × Front access 5¼" (CD-ROM)
Ports	1 × serial, 1 × parallel, VGA, keyboard, mouse, 2 × USB
Operating system	Windows 95/98 or Windows NT2000
Dimensions (W × D × H)	409 × 377 × 98mm
Warranty	3 years on-site

	DESCRIPTION	PROCESSOR	RAM	HDD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	Equium 7350S W95/98	Cel 500MHz	64MB	10GB	64-20-00	473.33	◗	474.99	474.52
NEW	Equium 7350S W2000	Cel 500MHz	64MB	10GB	64-39-46	523.16	◗	524.99	524.47
NEW	Equium 7350S 95/98	PIII 600MHz	128MB	15GB	64-32-90	667.65	◗	669.99	669.32
NEW	Equium 7350S WNT/2000	PIII 600MHz	128MB	15GB	64-28-21	717.47	◗	719.99	719.27
NEW	Equium 7350S W95/98	PIII 667MHZ	128MB	10GB	64-95-91	759.33	◗	761.99	761.23
NEW	Equium 7350S WNT	PIII 667MHz	128MB	10GB	64-37-24	807.16	◗	809.99	809.18
NEW	Equium 7350S W95/98	PIII 733MHz	128MB	15GB	64-20-01	891.86	◗	894.99	894.10
NEW	Equium 7350S W95/98	PIII 733MHz	128MB	15GB	64-98-68	941.69	◗	944.99	944.05
NEW	Equium 7350S WNT/2000	PIII 800MHz	128MB	15GB	64-23-38	1085.27	◗	◗	1087.99
NEW	Equium 7350S WNT/2000	PIII 800MHz	128MB	15GB	64-78-68	1137.14	◗	◗	1139.99

OTHER ITEMS

FOR TOSHIBA ACCESSORIES SEE PAGES 92–97

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DESKTOP PC CLEARANCE BARGAINS

DESCRIPTION	GRADE	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Compaq Deskpro EN CDS P11400/64MB/6.4GB	1	69-99-54	325.00	➧	325.00	325.00
Compaq Prof Workstation 6000 6/300/ 64MB/4GB/16XCD	1	19-82-54	1150.00	➧	➧	1150.00
Compaq Prof Workstation SP700/PII450/256MB/ 9GB/HD	1	19-35-61	1250.00	➧	➧	1250.00
Compaq Prosignia 320 Cel466/ 64MB/9.1ATA/17"Monitor	1	19-52-09	449.00	➧	449.00	449.00
Compaq Prosignia 330 PIII500/64/9.1/17"Monitor	1	63-95-03	499.00	➧	499.00	499.00
Compaq Prosignia 330 PIII500/128/13.5/17"Monitor	1	63-17-41	749.00	➧	749.00	749.00
HP Vectra VEi7 Cel400MHz/8.4GB/64MB/CD/ W95/Sound	1	19-23-54	259.00	➧	259.00	259.00
HP Vectra VL 6350/32MB/4.3GB/Mini-Tower PC/WNT	2	52-00-92	499.00	➧	499.00	499.00
HP Vectra VLi8 SFF PII400/4.3GB/64MB/W95	1	63-82-68	399.00	➧	399.00	399.00
IBM PC300GL/Win 95/200MHz/16MB	1	02-29-78	129.00	➧	129.00	129.00
IBM PC300GL 6/400/64MB/6.4GB/WNT/Desktop	1	62-15-37	450.00	➧	450.00	450.00
Mitsubishi LS500 266/32/3.2GB	1	19-88-72	249.00	➧	249.00	249.00
Mitsubishi LS500 6266/64MB/4.3GB/Desktop PC/NT4	1	13-08-46	249.00	➧	249.00	249.00
Mitsubishi XV400 (G3) Cel400/32/6.4/W95	1	19-53-87	299.00	➧	299.00	299.00
Mitsubishi XV600PIII500/128MB/12.7GB/ W95/Mini-Tower	1	63-59-49	450.00	➧	450.00	450.00
Osaris 8MB Handheld PC	1	12-09-84	199.00	➧	199.00	199.00
Siemens Scenic 560 PIII500/64MB/8.4GB	1	63-36-95	679.00	➧	679.00	679.00
Siemens Scenic 620 C366/32/4.3GB/Win 98	1	19-54-29	369.00	➧	369.00	369.00
Siemens Scenic Edition D7 PII400/64MB/3.2/ 32XCD/NT	3	63-51-69	929.00	➧	929.00	929.00
Toshiba Equium 7000S (4UK) PII233/32MB/2.1GB	1	69-41-86	219.00	➧	219.00	291.00
Toshiba Equium 7100D PII400/64MB/8.4GB/CD/NT	1	19-71-21	380.00	➧	380.00	380.00

GRADE 1

Products discontinued from the catalogue and in new and unused condition. They come with a 12 month guarantee (excluding software).

GRADE 2

Products that have been repacked and are complete. They may have been used previously and the packaging is unlikely to be original. They come with a three month guarantee (excluding software).

GRADE 3

Products that have been repacked but may be missing some accessories. Packaging is unlikely to be original. They come with a seven day guarantee (excluding software).

SAVE £££s on our end of life and refurbished stock – all fully operational and tested by engineers – see pages 1180–1183. Only available while stocks last – please call for up to date details.

OTHER ITEMS

FOR PROCESSORS SEE PAGES 206–211
FOR MEMORY UPGRADES SEE PAGES 190–205

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

FILESERVERS

COMPAQ



The Compaq **ProLiant 400** Server is the most affordable ProLiant server with the reliability and manageability you expect and the features, functionality and reliability you demand, at a price you can easily afford. This server combines the latest Intel Pentium II and III processors with the 100MHz GTL+ front side bus and an integrated Wide-Ultra2 SCSI controller to offer performance suitable for a variety of applications. With two internal and three external drive bays, six total expansion slots and optimum upgradeability in RAM and internal storage, the Compaq ProLiant 400 provides an ideal platform for basic file/print, remote access and communications, small database and firewall applications and the flexibility to grow your server as your business demands and protect your IT investment.

Also with such features as SmartStart, Compaq Insight Manager, Remote Wake-On-LAN, Automatic Server Recovery and a Pre-Failure Warranty, the Compaq ProLiant 400 makes the experience of managing your server simple.

The Compaq **ProLiant ML330**, the newest member of the ProLiant ML Server Line, introduces new features for small and medium businesses, and the new **ProLiant Streamlines Design**. To meet the growing needs of small and medium businesses, the ProLiant ML330 delivers leading file/print and Internet technology, along with the trust, reliability and value you expect from ProLiant servers.

Model	ProLiant 400	ProLiant ML330
Processor	Intel Pentium III (550 or 600MHz)	Intel Pentium III (667 or 733MHz)
RAM	64MB expandable to 768MB	64MB expandable to 1GB
Hard drive	0 or 9.1GB	or or 9.1GB
Drive controller	Integrated Wide-Ultra 2 SCSI controller	Integrated Wide-Ultra 2 SCSI controller
Floppy drive	3.5" 1.44MB	3.5" 1.44MB
CD-ROM	32 speed IDE CD-ROM	32 speed IDE CD-ROM
Expansion slots	3 × PCI, 1 × ISA, 1 × ISA/PCI, 1 × AGP	2 × 64-bit PCI, 4 × 32-bit PCI
Maximum Storage	Internal 27.3GB	Internal 91GB
Keyboard	Compaq Enhanced Keyboard	Hot Plug Keyboard
Operating system	Compaq SmartStart containing Insight Manager	Compaq SmartStart containing Insight Manager
Dimensions (W × D × H)	191 × 434 × 480mm	191 × 515 × 420mm
Weight	13kg	15.4kg
Warranty	Three years on-site parts and labour	

FOR COMPAQ SERVER CAREPAQs SEE PAGE 179

	DESCRIPTION	HDD	RAM	DISK CONTROLLER	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	ProLiant 400/PIII550 M1	—	64MB	Wide-Ultra 2 SCSI	63-18-38	684.53	➧	689.00	687.28
	ProLiant 400/PIII550 M9100	9.1GB	64MB	Wide-Ultra 2 SCSI	63-31-56	893.17	➧	899.00	896.75
	ProLiant 400/PIII600 M1	—	64MB	Wide-Ultra 2 SCSI	63-95-25	779.91	➧	785.00	783.04
	ProLiant 400/PIII600 M9100	9.1GB	64MB	Wide-Ultra 2 SCSI	63-18-39	982.59	➧	989.00	986.53
NEW	ProLiant ML330T PIII667	—	64MB	Wide-Ultra 2 SCSI	63-13-02	965.61	➧	969.00	968.03
NEW	ProLiant ML330T PIII667	9.1GB	64MB	Wide-Ultra 2 SCSI	63-50-02	1176.06	➧	➧	1179.00
NEW	ProLiant ML330T PIII733	—	64MB	Wide-Ultra 2 SCSI	63-70-85	1176.06	➧	➧	1179.00
NEW	ProLiant ML330T PIII733	9.1GB	64MB	Wide-Ultra 2 SCSI	63-19-53	1381.54	➧	➧	1385.00

OTHER ITEMS
FOR COMPAQ MONITORS SEE PAGES 320–321
FOR COMPAQ ACCESSORIES SEE PAGES 178–179

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DEPARTMENTAL SERVERS

COMPAQ

The **ProLiant 800** comes as standard with one Pentium III processor up to 600MHz, 64MB of ECC (Error Checking and Correcting) RAM that can be upgraded to 1GB. Models are available with or without hard drives but all have a dual wide Ultra-SCSI-3 drive controller, drives though are not hot-pluggable. An integrated 10Base-T network interface card is also included.

The new **ProLiant ML350** models with the latest available Intel Pentium III processors at 866 and 800MHz. The ProLiant ML350 Server combines the latest performance-enhancing technologies into an affordable priced dual processor server that meets the needs of both small corporate workgroups and SMEs. For the most value conscious customers, the ProLiant ML350 Server offers manageability, serviceability and availability features at a price they can afford.

For technical assistance or help with the configuration of your server, please call 08701 663322



Model	ProLiant 800	ProLiant ML350
Processor	Intel Pentium III (600MHz)	Intel Pentium III (600, 733, 800 or 866MHz)
RAM	64MB (expandable to 1GB)	128MB (expandable to 2GB)
Hard drive	0 or 9.1GB	9.1GB
Drive Controller	Integrated Wide-Ultra 2 SCSI controller	
Floppy drive	3.5" 1.44MB	
CD-ROM drive	32×Speed IDE CD-ROM	
Expansion slots	3×PCI, 1×ISA, 1×ISA/PCI, 1×AGP	2×64-bit PCI, 4×32-bit PCI, 1×SA
Maximum Storage	Internal 27.3GB	Internal 72.8GB
Keyboard	Compaq Enhanced Keyboard	Hot Plug Keyboard
Operation System	Compaq Smart Start containing Insight Manager	
Dimensions (W×D×H)	191×434×480mm	215×609×444mm
Weight	13kg	27kg
Warranty	Three years on-site parts and labour	

FOR COMPAQ SERVER CAREPAQs SEE PAGE 180

DESCRIPTION	HDD	INTERFACE	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
ProLiant 800 PIII/600 M1	0GB	Wide-Ultra SCSI-3	63-70-60	982.59	➧	989.00	986.53	
ProLiant 800 PIII/600 M9100	9.1GB	Wide-Ultra SCSI-3	63-23-03	1184.25	➧	➧	1189.00	
ProLiant ML350T PIII/600	9.1GB	Wide-Ultra SCSI	64-23-09	1612.53	➧	➧	1619.00	NEW
ProLiant ML350T PIII/733	9.1GB	Wide-Ultra SCSI	64-28-03	1961.13	➧	➧	1969.00	NEW
ProLiant ML350T PIII/800	0GB	Wide-Ultra SCSI	63-76-95	1734.66	➧	➧	1739.00	
ProLiant ML350T PIII/800	9.1GB	Wide-Ultra SCSI	63-64-85	1961.13	➧	➧	1969.00	NEW
ProLiant ML350T PIII/866	9.1GB	Wide-Ultra SCSI	63-08-82	2385.42	➧	➧	2389.00	NEW
ProLiant ML350T PIII/866	9.1GB	Wide-Ultra SCSI	63-28-08	2175.73	➧	➧	2179.00	NEW

OTHER ITEMS

FOR COMPAQ FILESERVER ACCESSORIES SEE PAGES 178–181
FOR COMPAQ MONITORS SEE PAGES 320–321

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW item on this page

DEPARTMENTAL SERVERS

COMPAQ



Compaq now introduces **Proliant ML370** models with the latest available Intel Pentium III processors at 667MHz up to 866MHz.
As the worlds' best selling server, the Proliant 1600 became the benchmark for machines in this class. Building on the strengths of the ProLiant 1600, the Compaq ProLiant ML370 is again defining the standard for multi-purpose server solutions optimized for distributed Server deployments.
The new Compaq ProLiant ML370 offers uncompromising performance, expanded availability and unprecedented configuration flexibility coupled with industry leading manageability. The redesigned 5U chassis houses state-of-the-art components such as the new dual processor capable 800MHz and 866MHz Pentium III processors from Intel, 133MHz registered SDRAM ECC DIMM memory and a 133MHz Front-Side bus to deliver the high levels of performance expected from a Compaq ProLiant. Available in both Rack and Tower models.

Model	ProLiant 1600	ProLiant ML370
Processor	Intel Pentium III (550 or 600MHz)	Intel Pentium III (667, 733, 800 or 866MHz)
RAM	128MB expandable to 1GB	128MB expandable to 4GB
Hard drive	0GB	0GB
Drive controller	Integrated Wide-Ultra 2 SCSI controller	
Floppy drive	3½" 1.44MB	
CD-ROM	32x Speed IDE CD-ROM	
Expansion slots	2 × PCI, 4 × PCI/ISA	4 × 64-bit PCI, 2 × 32-bit PCI
Maximum storage	45.5GB Internal	18.2GB Internal
Keyboard	Compaq Enhanced Keyboard	Hot Plug Keyboard
Operation system	Compaq Smart Start containing Insight manager	
Dimensions (W × D × H)	275 × 585 × 475mm	215 × 609 × 444mm
Warranty	Three years on-site parts and labour	

FOR TECHNICAL SERVICES SEE PAGES 23–39

	DESCRIPTION	HDD	INTERFACE	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	ProLiant 1600 PIII 550 M1	0GB	Dualwide Ultra SCSI 3	63-70-42	1449.19	▶	▶	1455.00
	ProLiant 1600 PIII 600 M1	0GB	Dualwide Ultra SCSI 3	63-49-80	1653.37	▶	▶	1660.00
	ProLiant ML370R PIII 667	0GB	Dualwide Ultra2 SCSI	64-98-56	2055.91	▶	▶	2059.00
NEW	ProLiant ML370T PIII 667	0GB	Dualwide Ultra2 SCSI	63-86-66	1841.61	▶	▶	1849.00
	ProLiant ML370R PIII 733	0GB	Dualwide Ultra2 SCSI	64-54-51	2285.57	▶	▶	2289.00
	ProLiant ML370T PIII 733	0GB	Dualwide Ultra2 SCSI	64-37-08	2021.96	▶	▶	2025.00
NEW	ProLiant ML370R PIII 800	0GB	Dualwide Ultra2 SCSI	63-75-84	2555.16	▶	▶	2559.00
NEW	ProLiant ML370T PIII 800	0GB	Dualwide Ultra2 SCSI	63-93-16	2275.58	▶	▶	2279.00
NEW	ProLiant ML370R PIII 866	0GB	Dualwide Ultra2 SCSI	63-67-45	2764.85	▶	▶	2769.00
NEW	ProLiant ML370T PIII 866	0GB	Dualwide Ultra2 SCSI	63-78-55	2485.27	▶	▶	2489.00

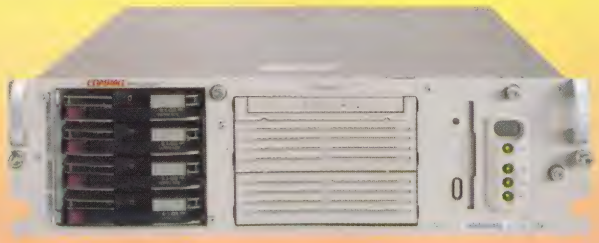
OTHER ITEMS

FOR UPS SEE PAGES 640–642
FOR COMPAQ MONITORS SEE PAGES 320, 321

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶ Save £££'s!
▶▶ Check live stock
▶▶ Track order status

ENTERPRISE SERVERS

COMPAQ



64-78-31

All the benefits and features of the **ProLiant 1850®** is available in a rack mounted configuration. Some of the key advantages of rack mounting as well as space saving include convenient power protection via an integrated UPS, easy cabling and vast amounts of available storage. Two sizes of rack are available either as a compact 22U or a larger 42U rack.
With the announcement of the **ProLiant DL380,** the follow-on to the ProLiant 1850R, Compaq is again redefining the standard for functionality for the dense rack server solution. The new Compaq ProLiant DL380 offers uncompromising performance, expanded availability and unprecedented configuration flexibility. The highly acclaimed space saving 3U chassis houses state-of-the-art components such as the new 733MHz Pentium III processor scalable to dual processors, 128MB of 133MHz ECC registered SDRAM DIMM memory and a 133MHz GTL bus to deliver excellent performance.

Model	ProLiant 1850R	ProLiant DL380
Processor	Intel Pentium III (550 or 600MHz)	Intel Pentium III (733MHz)
RAM	128MB expandable to 1GB	128MB expandable to 4GB
Hard Drive	0GB	
Drive Controller	Integrated Dual-Ultra 2 SCSI controller	
Floppy drive	3½" 1.44MB	
CD-ROM drive	24 × Speed IDE CD-ROM	
Expansion slots	3 × PCI, 1 × PCI/ISA	3 × 64-bit PCI, 1 × 32-bit PCI
Maximum Storage	72.8GB Internal	
Keyboard	Compaq Enhanced Keyboard	Hot Plug Keyboard
Operating System	Compaq Smart Start containing Insight manager	
Dimensions (W × D × H)	483 × 625 × 130mm	
Warranty	Three year on-site parts and labour	

For technical assistance or help with the configuration of your server please call **08701 663322**

FOR COMPAQ SERVER CAREPAQs SEE PAGE 179

DESCRIPTION	PROCESSOR	RAM	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
ProLiant 1850RM	PII 600MHz	128MB	63-08-63	2395.40	➧	➧	2399.00
ProLiant DL380	PIII 733MHz	128MB	64-78-31	2491.26	➧	➧	2495.00

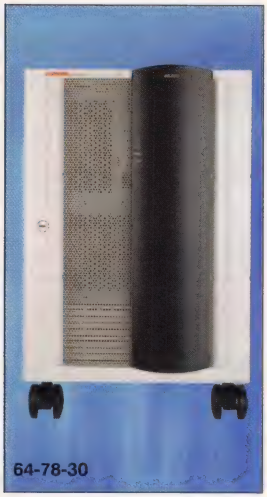
OTHER ITEMS
FOR UPS's SEE PAGES 640–647
FOR NETWORKING PRODUCT INDEX SEE PAGES 638, 639
FOR COMPAQ MONITORS SEE PAGES 320, 321

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

RACK MOUNTABLE FILESERVERS

COMPAQ



64-78-30

The **ProLiant 3000** is the world's best selling departmental server with excellent performance, fault tolerance and expansion with support for two processors and up to 4GB memory.
All ProLiant servers are supplied with an ethernet controller, 24x CD-ROM, SmartStart CD-ROM pack, system reference CD and an assembly instruction video.
A wealth of both essential and optional accessories are available including: rack cages, sidewall kits, stabilising feet, blanking panels, keyboards, trackballs and switch boxes.
The **ProLiant ML530,** the world's fastest 2-way server, combines maximum performance with ultimate expansion and manageability features. With the next generation Highly Parallel System Architecture, 133MHz SDRAM, 64-bit/66MHz PCI, and the new Pentium III 800MHz Xeon processors, the ML530 provides the fastest overall 2-way system performance. In addition to it's leading performance, the new ML530 is also optimised for maximum internal system expansion.

Owing to their complexity, these models should only be purchased with the assistance of Action's networking team to ensure the correct components and configuration, they will also be able to provide information on any products not listed in the Action catalogue.

Action offer the full range of Compaq Servers. Please call our Networking Pre-Sales team on 08701 663322.

Model	ProLiant 3000	ProLiant 3000R	ProLiant ML530/R
Processor	Intel PIII (600MHz)		Intel PIII Xeon (800/133MHz)
RAM	128 or 256MB (Exp. to 4GB)	64MB	128MB (Exp. to 4GB)
Hard drive	0GB		
Drive controller	Dual Wide-Ultra SCSI/Smart Array 3200 Controller M1S Model		Dual Wide Ultra 2 SCSI
Floppy drive	3½" 1.44MB		
CD-ROM drive	24 speed		32 speed IDE
Expansion slots	5 × PCI, 3 × PCI/ISA		2 × PCI 64-bit, 5 × PCI, 1 × PCI 32-bit
Drive bays	10 × 1" Hot Pluggable Ultra-2 Drives		6 × 1 Hot Pluggable Ultra-2 Drives
Ports	Parallel, Serial, Keyboard, Monitor, Mouse, Ethernet		
Dimensions (W × D × H)/Weight	323 × 622 × 521mm	305 × 622 × 483mm	323 × 622 × 521mm
Warranty	3 Years on-site – parts and labour.		

FOR COMPAQ SERVER CAREPAQs SEE PAGE 179

DESCRIPTION	PROCESSOR	RAM	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
ProLiant 3000 M1	PIII 600MHz	128MB	63-39-15	2184.72	▶	▶	2188.00
ProLiant 3000 M1S	PIII 600MHz	256MB	63-27-89	3415.58	▶	▶	3419.00
ProLiant 3000R M1	PIII 600MHz	128MB	63-54-11	2485.27	▶	▶	2489.00
ProLiant 3000R M1S	PIII 600MHz	256MB	63-19-10	3745.25	▶	▶	3749.00
ProLiant ML530 M1	PIII XEON 800/133MHz	128MB	64-78-30	2585.12	▶	▶	2589.00
ProLiant ML530R M1	PIII XEON 800/133MHz	128MB	64-64-79	2864.70	▶	▶	2869.00

OTHER ITEMS

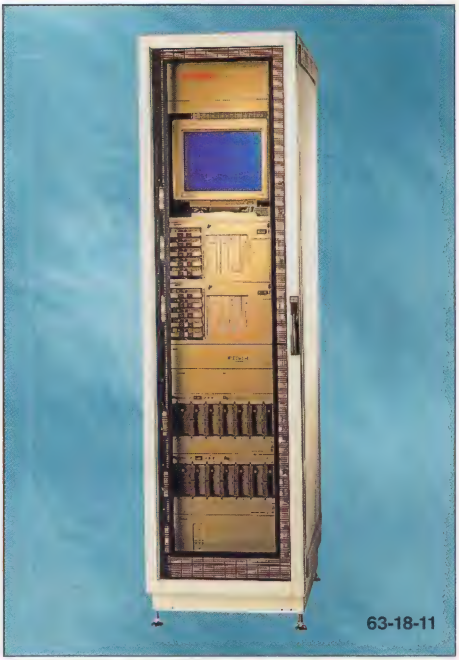
FOR UPS's SEE PAGES 640–647
FOR NETWORKING INDEX SEE PAGE 638
FOR COMPAQ MONITORS SEE PAGES 320, 321

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶ Save £££'s!
▶▶ Check live stock
▶▶ Track order status

FILESERVERS

COMPAQ

The **Compaq ProLiant 5550** server is ideal for large business and enterprise customers requiring an affordable, high performance, multi-purpose server for business applications. It incorporates Intel's powerful new Pentium II and Pentium III Xeon processors for enhanced performance and Ultra 2 SCSI technology to deliver maximum computing for greater performance results. The ProLiant 5500 supports up to four Pentium Xeon processors with integrated cache and up to 4GB of system memory for resource intensive applications.



NEW RANGE
Mid-July
see
www.Action.Com

FOR TECHNICAL ASSISTANCE OR HELP WITH THE CONFIGURATION OF YOUR SERVER PLEASE CALL OUR NETWORKING TEAM FREE ON 08701 663322

Model	ProLiant 5500
Processor	Pentium III (500 or 550MHz)
RAM	256MB ECC Memory Expandable to 4GB
Hard Drive	0.9GB
Drive Controller	Dual Wide-Ultra SCSI-3
Floppy Drive	3.5" 1.44MB
CD-ROM Drive	32 Speed
Expansion Slots	6 × PCI, 1 × PCI/ISA
Drive Bays	10 × 1" Ultra2
Ports	Parallel, Serial, Keyboard, Monitor, Mouse, Ethernet, SCSI
Dimensions (W × D × H)	384 × 635 × 594mm
Warranty	Three years on-site parts and labour

DESCRIPTION	PROCESSOR	RAM	CACHE	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
ProLiant 5500 M1	PIII Xeon 500MHz	256MB	512KB	63-18-11	3445.55	➧	➧	3449.00
ProLiant 5500 M2	PIII Xeon 500MHz	256MB	1MB	63-76-67	7049.00	➧	➧	7049.00
ProLiant 5500 M1	PIII Xeon 550MHz	256MB	512KB	63-76-82	3670.33	➧	➧	3674.00
ProLiant 5500 M2	PIII Xeon 550MHz	256MB	1MB	63-64-78	7289.00	➧	➧	7289.00

OTHER ITEMS

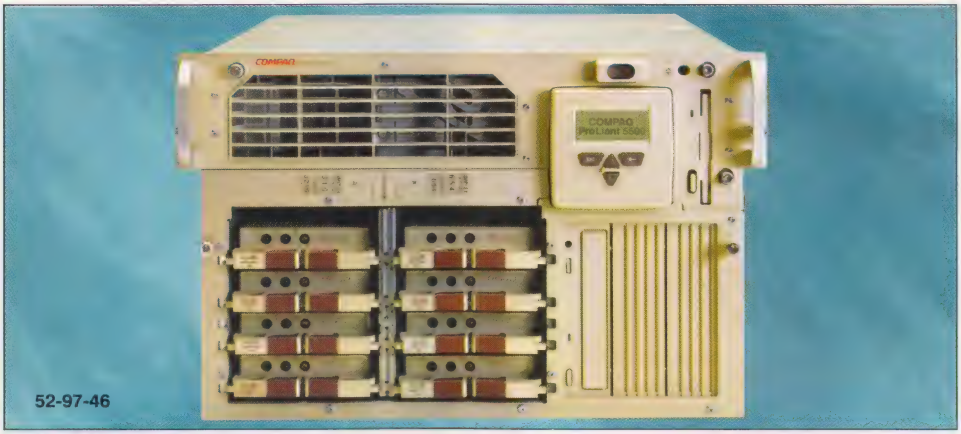
FOR TECHNICAL SERVICES SEE PAGES 23–39
FOR COMPAQ MONITORS SEE PAGES 320–321

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

RACK MOUNTABLE FILESERVERS

COMPAQ



ProLiant 5500R

All the benefits and features of the **ProLiant Series** are also available in rack mount configurations. Some of the key advantages of rack mounting, as well as saving space include convenient power protection via an Integrated UPS, easy cabling and vast amounts of available storage.
Two sizes of rack are available, either a compact 22U or a larger 42U. Both essential and optional accessories are available including; sidewall kits, stabilising feet, blanking panels, keyboards, trackballs and switch boxes.

Owing to their complexity, these models should only be purchased with the assistance of our own networking team, who will be able to assist in configuration and make sure all the correct components are purchased. They will also be able to help in locating any products not listed in the Action catalogue. **CALL FREE FOR TECHNICAL INFORMATION 08701 663322.**

Model	ProLiant 5500R
Processor	Pentium III (500 or 550MHz)
RAM	256MB ECC Memory Expandable to 4GB
Hard Drive	0GB
Drive Controller	Dual Wide-Ultra SCSI-3
Floppy Drive	3.5" 1.44MB
CD-ROM Drive	32 Speed
Expansion Slots	6 × PCI, 1 × PCI/ISA
Drive Bays	10 × 1" Ultra 2
Ports	Parallel, Serial, Keyboard, Monitor, Mouse, Ethernet, SCSI
Dimensions (W × D × H)	384 × 635 × 594mm
Warranty	3 Year on-site parts and labour

DESCRIPTION	PROCESSOR	RAM	CACHE	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
ProLiant 5500R M1	PIII XEON 500MHz	256MB	512KB	52-97-46	3775.22	▶	▶	3779.00
ProLiant 5500R M2	PIII XEON 500MHz	256MB	1MB	64-78-32	7359.00	▶	▶	7359.00
ProLiant 5500R M1	PIII XEON 550MHz	256MB	512KB	63-70-61	3995.00	▶	▶	3999.00
ProLiant 5500R M2	PIII XEON 550MHz	256MB	1MB	64-82-35	7579.00	▶	▶	7579.00

OTHER ITEMS

FOR COMPAQ NOTEBOOK SEE PAGES 61–66
FOR COMPAQ DESKTOPS SEE PAGES 154–163

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶ Save £££'s!
▶▶ Check live stock
▶▶ Track order status

RACK MOUNTABLE FILESERVERS

COMPAQ



63-17-27

The **ProLiant 6400R** merges an innovative new form factor with the latest technology to create the ideal combination of 4-way computing power and density for space constrained data centre environments. The ProLiant 6400R is a perfect platform for data centre customers using external storage and external back-up solutions that want maximum 4-way system performance to run demanding business applications, implement clustering solutions or run active intranet, Internet and e-commerce sites. With the latest performance, reliability, manageability and serviceability features in a space saving 4U (7") design this server provides an ideal solution for the space constrained data centre customer.

Model	ProLiant 6400R
Processor	Pentium III (500 or 550MHz)
RAM	256MB ECC Memory Expandable to 4GB
Hard Drive	0GB
Drive Controller	Integrated Wide-Ultra SCSI-3
Floppy Drive	3.5" 1.44MB
CD-ROM Drive	32 Speed
Expansion Slots	6 × PCI, 1 × PCI/ISA
Drive Bays	4 × 1" Hot Pluggable Ultra-2
Ports	Parallel, Serial, Keyboard, Monitor, Mouse, Ethernet, SCSI
Warranty	3 Year on-site parts and labour

DESCRIPTION	PROCESSOR	RAM	CACHE	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
ProLiant 6400R M1	PIII XEON 500MHz	256MB	512KB	63-17-27	4737.63	➧	➧	4740.00
ProLiant 6400R M2	PIII XEON 500MHz	256MB	1MB	63-70-30	8600.00	➧	➧	8600.00
ProLiant 6400R M2	PIII XEON 500MHz	256MB	1MB	63-22-73	13350.00	➧	➧	13350.00
ProLiant 6400R	PIII XEON 550MHz	256MB	512KB	63-62-63	4996.50	➧	➧	4999.00
ProLiant 6400R	PIII XEON 550MHz	256MB	1MB	63-31-84	8940.00	➧	➧	8940.00
ProLiant 6400R	PIII XEON 550MHz	256MB	1MB	63-34-74	13650.00	➧	➧	13650.00

OTHER ITEMS

FOR TECHNICAL SERVICES SEE PAGES 23–39
FOR COMPAQ DESKTOPS SEE PAGES 154–163

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

SERVER RAM UPGRADES

COMPAQ

	DESCRIPTION	COMPAQ PART NO	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	PROLIANT ML350T/ML370/ML530/DL380						
NEW	64MB 133Hz Registered SDRAM DIMM	128276-B21	63-95-63	135.21	➧	139.00	137.61
NEW	128MB 133Hz Registered SDRAM DIMM	128277-B21	63-19-39	272.37	➧	279.99	277.19
NEW	256MB 133Hz Registered SDRAM DIMM	128278-B21	63-54-55	568.09	➧	583.99	578.15
NEW	512MB 133Hz Registered SDRAM DIMM	128279-B21	63-95-61	1454.23	➧	➧	1479.99
	PROLIANT ML370/ML530/DL380						
NEW	1GB 133Hz Registered SDRAM DIMM	128280-B21	63-19-49	4218.43	➧	➧	4229.00
	MEMORY: EDO 50NS/PROLIANT 5500/6000/6400/6500/7000						
	1GB EDO Memory Expansion Kit (4 × 256MB buffered EDO DIMMS)	328583-B21	63-46-89	2609.33	➧	➧	2629.00
	256MB EDO Memory Expansion Kit (4 × 64MB buffered EDO DIMMS)	328581-B21	63-46-65	621.59	➧	638.99	632.60
	512MB EDO Memory Expansion Kit (4 × 128MB buffered EDO DIMMS)	328582-B21	63-46-72	1138.83	➧	➧	1159.00
	PROLIANT 800/1600/1850/3000						
	128MB SDRAM	313615-B21	55-90-87	231.51	➧	237.99	235.61
	256MB SDRAM	313616-B21	26-11-17	569.07	➧	585.00	579.15
	512MB SDRAM (PL3000 PII & PIII 400MHz and above models only)	313617-B21	26-35-17	1411.98	➧	➧	1436.99
	64MB SDRAM	313614-B21	55-90-70	127.42	➧	130.99	129.68
	PROLIANT 400						
	128MB 100MHz Unregistered ECC SDRAM	401704-B21	63-71-67	272.37	➧	279.99	277.19
	256MB 100MHz Unregistered ECC SDRAM	401996-B21	63-18-12	680.93	➧	699.99	692.99
	32MB 100MHz Unregistered ECC SDRAM	401702-B21	63-71-43	85.70	88.99	88.10	87.22
	64MB 100MHz Unregistered ECC SDRAM	401703-B21	63-71-50	142.02	➧	146.00	144.54
	NETWORK CARDS FOR USE WITH ALL PROLIANTS						
NEW	16/4 IBM Token Ring WOL PCI NIC	133749-B21	25-15-19	142.99	➧	146.99	145.52
	NC3122 Dual Port 10/100 TX PCI Intel UTP NIC	317450-B21	63-95-04	162.45	➧	167.00	165.33
	NC3123 Intel 10/100 PCI WOL NIC	174830-B21	63-53-83	55.86	58.00	57.42	56.85
	NC4621 PCI 4/16 WOL Token Ring NIC	379956-B21	63-27-94	96.29	99.99	98.99	98.00
	POWER PROTECTION						
NEW	1500VA Rack UPS (110V)	242704-001	25-78-54	771.40	➧	798.99	791.00
NEW	3000VA Rack UPS (110V)	242705-001	25-93-14	1245.35	➧	➧	1276.99
	6000VA Rackmount UPS	347207-B31	22-51-32	3918.02	➧	➧	3957.50
NEW	DL380/PL1850R Hot Plug RPS	143397-021	63-19-40	204.27	➧	209.99	207.89
	Proliant 1600 Hot Plug RPS	283697-B21	63-47-37	456.23	➧	469.00	464.31
	Proliant 3000 and 5500 RPS	306592-B21	25-08-50	438.72	➧	451.00	446.49

OTHER ITEMS

FOR COMPAQ SERVERS SEE PAGES 168, 173
FOR COMPAQ MONITORS SEE PAGES 320, 321

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

COMPAQ OPTIONS

COMPAQ

COMPAQ SERVER OPTION COMPATIBILITY

KEY:
■ = Both rack and tower
* = Requires drive cage

Part No.	Hard Disk Drive	Cat. No.	Proliant400	Proliant 800	Proliant ML350	Proliant 1600 & 1600R	Proliant ML370	Proliant 1850R	Proliant DL380	Proliant 3000 & 3000R	Proliant ML530	Proliant 5500 & 5500R	Proliant 6000	Proliant 6400	Proliant 6500	Proliant 7000
142674-B21	18.2GB 1-inch Ultra3 Drive (10KRPM)	63-13-01	■	■	■	■	■	■	■	■	■	■	■	■	■	■
128419-B21	18.2GB 1-inch Non Pluggable Ultra 2 Drive	63-27-90	■	■	■	■	■	■	■	■	■	■	■	■	■	■
128418-B22	18.2GB 1-inch Pluggable Ultra 2 Universal Drive (10K-II)	63-19-03	■		■	■	■	■	■	■	■	■	■	■	■	■
388144-B21	18.2GB 1-inch Pluggable Ultra 2 Universal Drive	63-18-14	■		■	■	■	■	■	■	■	■	■	■	■	■
142673-B22	18.2GB 1-inch Pluggable Ultra 3 Universal Drive (10K-II)	63-54-53	■		■	■	■	■	■	■	■	■	■	■	■	■
128417-B21	18.2GB 1-inch Pluggable Wide-Ultra SCSI-3 Drive (10K-II)	63-54-12	■		■	■	■	■	■	■	■	■	■	■	■	■
400739-B21	18.2GB 1-inch Pluggable Wide-Ultra SCSI-3 Drive	63-17-77	■		■	■	■	■	■	■	■	■	■	■	■	■
388143-B21	18.2GB 1-inch Ultra 2 Drive	63-31-25	■	■	■	■	■	■	■	■	■	■	■	■	■	■
142676-B21	36.4GB Ultra 3 Drive (10KRPM)	63-39-32	■	■	■	■	■	■	■	■	■	■	■	■	■	■
400740-B21	36.4GB Pluggable Wide Ultra SCSI Drive (1.6)	63-54-52			■	■	■	■	■	■	■	■	■	■	■	■
147599-001	36GB Pluggable Wide Ultra SCSI-3 Drive (SSB)	63-28-07			■	■	■	■	■	■	■	■	■	■	■	■
328939-B22	9.1GB 1-inch Pluggable Ultra 2 10-KII Universal Hard Drive	63-39-16			■	■	■	■	■	■	■	■	■	■	■	■
123065-B22	9.1GB 1-inch Pluggable Ultra 2 10-KII Universal Hard Drive	63-19-04			■	■	■	■	■	■	■	■	■	■	■	■
142671-B22	9.1GB 1-inch Pluggable Ultra 3 Universal Hard Drive (10K-II)	63-95-56			■	■	■	■	■	■	■	■	■	■	■	■
142672-B21	9.1GB 1-inch Ultra 3 Drive (10KRPM)	63-08-81	*	■	■		■		■							
313706-B21	9.1GB 1-inch Pluggable Wide-Ultra SCSI-3 Drive	68-68-57				■		■		■		■	■		■	■
336357-B21	9.1GB 1-inch Pluggable Wide-Ultra SCSI-3 Drive (10K-II)	62-17-26				■		■		■		■	■		■	■
349526-B21	9.1GB Ultra SCSI Drive	63-70-40	*	■	■		■		■							

For help with the configuration of your server and to ensure component compatibility, please call our Networking Technical Group on 08701 663322.

OTHER ITEMS

FOR COMPAQ ACCESSORIES SEE PAGES 176–179

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW item on this page

STORAGE: HARD DISKS

COMPAQ

	DESCRIPTION	PART NO	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	STORAGE: HARD DISKS						
NEW	18.2GB 1" Ultra 3 Drive (10K RPM)	142674-B21	63-13-01	468.25	◗	485.00	480.15
	18.2GB 1" Non-Pluggable Ultra 2 Drive (10K-II)	128419-B21	63-27-90	467.29	◗	484.00	479.16
	18.2GB 1" Pluggable Ultra 2 Universal Drive (10K-II)	128418-B22	63-19-03	605.35	◗	627.00	620.73
	18.2GB 1" Pluggable Ultra 2 Universal Drive	388144-B22	63-18-14	490.46	◗	508.00	502.92
	18.2GB 1" Pluggable Ultra 3 Universal Drive (10K-II)	142673-B22	63-54-53	699.00	◗	724.00	716.76
	18.2GB 1" Pluggable Wide-Ultra SCSI-3 Drive (10K-II)	128417-B21	63-54-12	605.35	◗	627.00	620.73
	18.2GB 1" Pluggable Wide-Ultra SCSI-3 Drive	400739-B21	63-17-77	489.49	◗	507.00	501.93
	18.2GB 1" Ultra 2 Drive	388143-B21	63-31-25	410.33	◗	425.00	420.75
NEW	36.4GB Ultra 3 Drive (10K RPM)	142676-B21	63-39-32	858.30	◗	889.00	880.11
	36.4GB Pluggable Wide Ultra SCSI Drive (1.6)	400740-B21	63-54-52	880.51	◗	912.00	902.88
	36GB Pluggable Wide Ultra SCSI-3 Drive (SBB)	147599-001	63-28-07	1196.25	◗	◗	1196.25
	9.1GB 1" Pluggable Ultra 2 10K-II Universal Hard Drive	328939-B22	63-39-16	322.47	◗	334.00	330.66
	9.1GB 1" Pluggable Ultra 2 Universal Drive	123065-B22	63-19-04	279.02	◗	289.00	286.11
	9.1GB 1" Pluggable Ultra 3 Universal Hard Drive (10K-II)	142671-B22	63-95-56	373.64	◗	387.00	383.13
	9.1GB 1" Ultra 3 Drive (10K RPM)	142672-B21	63-08-81	317.64	◗	329.00	325.71
	9.1GB 1" Pluggable Wide-Ultra SCSI-3 Drive	313706-B21	68-68-57	279.02	◗	289.00	286.11
	9.1GB 1" Pluggable Wide-Ultra SCSI-3 Drive (10K-II RPM)	336357-B21	62-17-26	322.47	◗	334.00	330.66
	9.1GB Ultra 2 SCSI Drive	349526-B21	63-70-40	235.58	◗	244.00	241.56
	STORAGE: INTERNAL DRIVE CAGES						
	Ultra 2 Drive Cage for PL3000/5500	382157-B21	63-71-12	218.87	◗	225.00	222.75
	Ultra 2 Drive Cage for PL1600	382159-B21	63-71-29	221.79	◗	228.00	225.72
	Ultra 2 Drive Cage for PL6500 (9×1")	382158-B21	63-71-36	397.86	◗	409.00	404.91
	SCSI-3 HP Drive Cage (5×1") for PL1600	271912-001	13-14-81	121.60	◗	125.00	123.75
	STORAGE: ARRAY CONTROLLERS						
	SMART 221 Array Controller	388099-B21	63-70-88	490.86	◗	499.00	496.01
	SMART 3200 Array Controller (PCI, 64MB)	295643-B21	63-47-13	1278.52	◗	◗	1311.00
NEW	SMART 431 Array Controller	127695-B21	63-19-51	501.08	◗	519.00	513.81
	SMART Array 4200 Controller	295636-B21	63-37-00	1617.90	◗	◗	1659.00
	STORAGE: SCSI CONTROLLERS						
	32-Bit Wide-Ultra SCSI-3/P Controller (PCI)	272514-001	98-33-78	250.05	◗	258.99	256.40
	Dual Channel Ultra 2 SCSI Controller (PCI)	348757-B21	63-71-05	293.49	◗	303.99	300.95
NEW	Dual Channel Ultra 3 SCSI Adaptor	129803-B21	63-70-84	288.68	◗	299.00	296.01

OTHER ITEMS

FOR UPS's SEE PAGES 640–647
FOR NETWORKING INDEX SEE PAGES 638, 639
FOR COMPAQ MONITORS SEE PAGES 320, 321

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FILESERVER ACCESSORIES

COMPAQ

DESCRIPTION	COMPAQ PART NO	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
TAPE DRIVES						
20/40GB DLT Drive – External (Opal)	340744-B22	55-17-18	1565.22	♦	♦	1604.99
35/70GB DLT Drive – Internal	242520-B21	89-51-05	3274.00	♦	♦	3306.99
35/70GB DLT Drive – External	242521-B21	67-73-23	3430.43	♦	♦	3464.99
DDS4 DAT Drive – Internal 20/40GB	295513-B22	63-23-11	542.59	♦	561.99	556.37
RACK ACCESSORIES						
Compaq Server Console Switch 2Port	120206-B31	63-19-52	317.64	♦	329.00	325.71
CPU to Server Console Cable 12 foot	110936-B21	63-19-17	51.60	53.99	53.45	52.92
CPU to Server Console Cable 20 foot	110936-B22	63-19-19	72.00	72.00	72.00	72.00
CPU to Server Console Cable 40 foot	110936-B23	63-31-37	89.85	94.00	93.06	92.13
Keyboard Drawer kit (10 kit)	338056-B21	63-36-99	194.55	♦	200.00	198.00
Keyboard/Monitor/Mouse extension cable	169989-001	96-73-63	60.50	60.50	60.50	60.50
Monitor Utility Shelf	303606-B21	41-47-99	85.00	85.00	85.00	85.00
Rackmountable Flat Planel Monitor TFT 5000R	120207-B31	63-95-65	1095.59	♦	♦	1115.00 NEW
Proliant 3000/5500 Tower to Rack Conversion Kit	306557-B21	13-89-10	311.28	♦	319.99	316.79
22U Rack 7122	163747-002	98-81-08	1178.13	♦	♦	1199.00
36U Rack 4136	303656-B31	24-04-82	1009.35	♦	♦	1034.99
42U Rack 7142	165753-003	98-81-15	1365.31	♦	♦	1400.00
Rack Sidewall Kit (42U only)	165652-001	76-71-78	150.78	♦	155.00	153.45
Rack Coupling Kit	165664-001	86-66-22	114.89	♦	119.00	117.81
Rack Stabilising Feet	189907-001	86-66-39	78.97	82.00	81.18	80.37
Blanking Panels	169940-001	80-96-58	48.14	49.99	49.49	49.00
Server Console Switch 1 × 4	400336-B31	96-76-70	688.37	♦	712.99	705.86
Rack Internal Keyboard with Trackball	185152-036	98-17-59	116.72	♦	119.99	118.79
COMPAQ CAREPAQ – 3 Years On-site 4 Hour Response Maintenance Upgrade						
Carepaq for Entry Level Servers	324416-002	63-11-87	373.63	♦	386.99	383.12
Carepaq for Workgroup Servers	324417-002	25-29-37	744.17	♦	765.00	757.35
Carepaq for Departmental Servers	324418-002	25-69-19	1272.46	♦	♦	1295.00
Carepaq for Proliant Storage Systems	324419-002	24-29-16	637.16	♦	655.00	648.45

OTHER ITEMS

FOR UPS's SEE PAGES 640–647
FOR NETWORKING INDEX SEE PAGES 638, 639
FOR COMPAQ MONITORS SEE PAGES 320, 321

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FILE SERVERS



UPGRADE YOUR WARRANTY
SEE PAGES 424-425
HP SUPPORTPACK

The **HP NetServer E60** is the best solution for businesses with little or no in-house IT support. The HP Netserver E60 continues the tradition of utilising HP's superior engineering to design a server specifically for small-to-medium businesses, complete with industry-leading support programs, for an incredible value price. Like the rest of the award-winning HP NetServer E Series product line, the dependable HP NetServer E60 keeps networks up and running with a minimum of effort and maximum productivity and efficiency.

Features include Intel Pentium III processors up to 550MHz, 64MB ECC SDRAM, integrated 10/100 TX LAN Adaptor (NIC), dual channel Ultra/wide SCSI controller and CD-ROM as standard.

The **HP NetServer LC3** and **LC2000** offers a level of performance, server system expandability and high availability unmatched in the industry. The HP NetServer LC3 and LC2000 reaches new levels of application performance with its HP designed motherboard and with Intel's Pentium III 500, 550 or 733MHz processors, the Intel 440BX AGPset PCI chipset and 100MHz SDRAM memory.

FOR TECHNICAL SERVICES SEE PAGES 23–39

Model	NetServer E60	NetServer LC3	NetServer LC2000
Processor	Intel PIII (500 or 550MHz)		Intel PIII (733MHz)
RAM	64MB ECC SDRAM (expandable to 1GB)		128MB ECC SDRAM (expandable to 1GB)
Hard drive	0GB or 9.1GB UW SCSI		0GB
Floppy drive	3.5" 1.44MB		
CD-ROM drive	24×speed		32×IDE CD-ROM
Keyboard	Localised keyboard and 2 button mouse		
LAN	Integrated 10/100	10/100 PCI Card	N/A
Expansion slots	5×PCI, 1×PCI/ISA	5×PCI (1 occupied by pre-installed 10/100TX NIC), 1×PCI/ISA	2×64-bit PCI, 4×32-bit PCI
Drive bays	3×front accessible 5¼" (1 taken by CD). 4×internal 5¼"	3×half height hot-swap shelves+ 1×half height common tray shelf	2×open common trays 6×open hot swap shelves
Ports	Parallel, 2×serial, monitor, keyboard, mouse		
Dimensions (W×D×H)	180×500×434mm	217×577×552mm	216×692×648mm
Warranty	12 months-on-site, next day support	Three year, on-site limited	

	DESCRIPTION	PART NO	HARD DISK	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	NetServer E60 PIII 600MHz	(D9129T)	9.1GB	64-95-77	1364.53	➧	➧	1370.00
	NetServer LC2000 PIII 733MHz	(D8519A)	—	63-19-11	1743.01	➧	➧	1750.00
NEW	NetServer LC2000 PIII 600MHz	(D8521T)	—	64-32-65	2496.25	➧	➧	2500.00

OTHER ITEMS
FOR HP MONITORS SEE PAGE 322
FOR HP SERVER ACCESSORIES SEE PAGE 182

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FILE SERVERS

The **HP NetServer LH3** has the performance, availability and scalability features your growing business needs.
All LH3 NetServers will support upto a dozen Ultra 2 SCSI drives driven by integrated dual-channel HP NetRAID controllers with 1_2O.
The **HP NetServer LH4** and LH4r close the performance gap for workgroups and departments on the fast track, with four-way processing power, high availability, and excellent value.

The **HP NetServer LH3000** brings higher performance and reliability to meet your demanding departmental server requirements. It incorporates the latest performance and storage, extraordinary performance – dual Intel® Pentium® III processors – 533MHz, 600MHz, 667MHz, or 733MHz – with 133MHz front side bus, PC 133MHz ECC SDRAM and performance-boosting integrated RAID controller.

Highlights include:
Four-way processing with Intel Pentium III Xeon 500 and 550MHz processors, capacity for up to 12 Ultra2 SCSI drives driven by an integrated dual-channel HP NetRAID controller with IO, up to 4GB ECC buffered EDO DRAM with memory scrubbing, hot-Swap power supplies and redundant hot-swap fans standard, and automatic hardware-level IRQ re-directs using HP's Smart IRQ technology to ease configuration and boost performance.



For help with configuration call our Technical group on 08701 663322.

Model	NetServer LH3/r	NetServer LH4/r	NetServer LH3000/r
Processor	Intel Pentium (500, 550 or 600MHz)	Intel PIII Xeon (500 or 550MHz)	Intel PIII (600 or 733MHz)
RAM	128MB ECC SDRAM (expandable to 1GB)	256MB ECC EDO RAM (expandable to 4GB)	128MB ECC SDRAM (expandable to 4GB)
Hard drive	0GB		
Floppy drive	3.5" 1.44MB		
CD-ROM drive	24× speed max.	32× speed max.	
Expansion slots	8×PCI, (1 occupied by pre-installed 10/100TX NIC). 1 shared with 2/3 length ISA		8×PCI, (6×64-bit, 2×32-bit)
Keyboard	Localised keyboard and 2 button mouse on pedestal only		
Ports	Parallel, 2×serial, 2×SCSI, monitor, keyboard/mouse, management		
Dimensions (W×D×H)	Rack: 483×749×355mm Pedestal: 351×724×495mm	Rack: 483×749×355mm Pedestal: 351×724×495mm	Rack: 483×750×355mm Pedestal: 351×725×495mm
Warranty	Three year, on-site limited		

UPGRADE YOUR WARRANTY SEE PAGES 424-425 HP SUPPORTPACK

DESCRIPTION	PART NO	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NetServer LH3 M1 PIII 550 – Pedestal	D8567A	63-76-60	2225.66	▶	▶	2229.00
NetServer LH3 M1 PIII 550 – Rack	D8568A	63-53-88	2495.25	▶	▶	2499.00
NetServer LH3 M1 PIII 600 – Pedestal	D9343A	63-95-27	2395.40	▶	▶	2399.00
NetServer LH3 M1 PIII 600 – Rack	D9344A	63-18-46	2694.95	▶	▶	2699.00
NetServer LH4 PIII Xeon 500 – Pedestal	D7103A	63-95-10	3466.53	▶	▶	3470.00
NetServer LH4 PIII Xeon 500 – Rack	D7104A	63-17-49	3696.30	▶	▶	3700.00
NetServer LH4 M1 PIII Xeon 550 – Rack	D8553A	63-18-37	4196.90	▶	▶	4199.00
NetServer LH3000 PIII 600 – Pedestal	D8236A	63-23-23	2595.10	▶	▶	2599.00
NetServer LH3000 PIII 733 – Rack	D9178A	63-49-96	3346.65	▶	▶	3350.00

OTHER ITEMS
FOR HP SERVER ACCESSORIES SEE PAGE 182
FOR HP MONITORS SEE PAGE 329

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶ Save £££'s!
▶▶ Check live stock
▶▶ Track order status

Lower prices on-line at action.com

FILE SERVER ACCESSORIES

DESCRIPTION	FOR USE WITH	PART NO	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
64MB 36-bit 50ns unbuffered SDRAM	E60	D7155A	22-51-92	128.55	➧	129.00	128.87
128MB 36-bit 50ns unbuffered SDRAM	E60	D7156A	17-08-49	164.40	➧	169.00	167.31
64MB (100MHz) memory DIMM	LC3/LH3	D6097A	62-16-09	134.20	➧	139.00	137.61
128MB (100MHz) memory DIMM	LC3/LH3	D6099A	62-16-16	213.04	➧	219.00	216.81
PCI Ultra Wide SCSI Adaptor	E50/LC3/4	D5025A	24-23-94	137.10	➧	142.00	140.58
9.1GB Ultra Wide SCSI HDD	E50/E60	D4911A	62-16-47	282.10	➧	290.00	287.10
9.1GB Hot-Swap Wide Ultra Fast SCSI-2 Disk Drive (7200rpm)	LC3	D4289A	99-80-64	323.63	➧	329.00	327.03
18.2GB Hot-Swap Wide Ultra Fast SCSI-2 Disk Drive (7200rpm)	LC3	D5039A	63-10-53	612.84	➧	630.00	623.70
9.1GB hot-swap Ultra 2 SCSI Hard Disk Drive (7200rpm)	LH3/4	D6106A	29-26-43	290.86	➧	299.00	296.01
9.1GB low profile hot-swap Ultra 2 SCSI Hard Disk Drive (10Krpm)	LH3/4	D6107A	25-90-19	408.56	➧	420.00	415.80
9.1GB Ultra Wide SCSI Hard Disk Drive (10Krpm)	E50/60/LC3	D7049A	63-22-90	340.47	➧	350.00	346.50
18.2GB Ultra Wide SCSI Disk Drive (7200rpm)	E50/60LC3	D7176A	63-49-66	398.83	➧	410.00	405.90
18GB Ultra 2 Low profile Hot-swap Hard Disk Drive (10k rpm)	LH3/4	D7175A	63-39-17	690.67	➧	710.00	702.90
Surestore DAT24i 24GB Internal DAT Drive	LC3/LH3	C1555D	86-19-33	600.98	➧	610.95	607.28
Surestore DAT 24 x 6l Internal Autoloader	LC3/LH3	C5677A	63-10-77	1370.72	➧	➧	1395.00
Surestore DLT 40l 40GB Internal Drive	LC3/LH3	C5647A	63-10-84	1099.52	➧	➧	1119.00
Surestore DLT 80e 80GB External DLT	LC3/LH3/4	C5726A	36-99-63	2942.93	➧	➧	2950.00
NetRaid-3Si disk array controller with triple Ultra SCSI-2 channels	LC3/LH4	D5955A	25-77-29	1226.14	➧	➧	1239.00
Upgrade to 3 year on-site same day 4 hour response SupportPack Mon-Fri	E series	H5517A	68-10-89	362.98	➧	369.00	366.79
Upgrade to 3yr onsite 4 hr response 7 days, 24 hrs SupportPack	E series	H5512A	63-12-50	471.18	➧	479.00	476.13
Upgrade to 3yr on-site same day 4 hr response SupportPack Mon-Fri	LH3/4	H5518A	68-11-37	796.78	➧	810.00	805.14
Upgrade to 3yr onsite 4 hr response 7 days, 24 hrs SupportPack	LH3/4	H5513A	87-04-98	1179.11	➧	➧	1200.00

Please see www.action.com for more products

OTHER ITEMS

FOR HP NETSERVERS SEE PAGES 180, 181
FOR HP MONITORS SEE PAGE 329

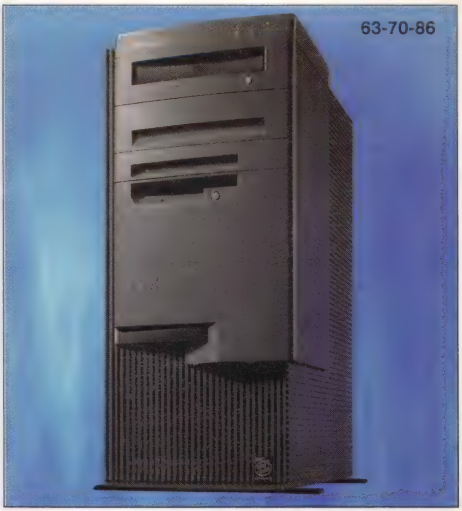
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FILE SERVERS

IBM™

The **Netfinity 3000 and new 3500 M20 servers** from **IBM** unites the exceptional systems management, service and support and industry alliances that run through the whole Netfinity family with powerful, scaleable, and very competitive hardware and is ideal for small or medium businesses.

The Netfinity 3000's single processor design – up to 700, 800MHz Pentium III – comes with Wide Ultra SCSI controller and integrated 10/100Mbps Ethernet. They also feature 100MHz ECC memory for data protection and system integrity, and there are six bays for disk expansion to provide up to 36GB of storage, and six slots for adaptor expansion.



Please see www.action.com for more products

Model	Netfinity 3000	Netfinity 3500
Processor	Intel PIII (650, 700, 733 or 800MHz)	
RAM	64MB ECC SDRAM (exp. to 768MB)	128MB ECC SDRAM (exp. to 1024MB)
Hard drive	0MB, or 9.1GB	
Floppy drive	3.5" 1.44MB	
CD-ROM drive	32 speed	40 speed
Keyboard	102 key	
Expansion slots	3 × PCI, 3 × ISA (4 × PCI 1 × ISA on 3500 models)	
Drive bays	2 × front accessible 5.25" (1 taken by CD), 2 × internal 3.5", 2 × ext 3.5"	
Ports	Parallel, 2 × serial, monitor, mouse/keyboard, 2 × USB	As 3000 plus 1 × SCSI port
Dimensions (H × W × D)	494 × 200 × 445mm	
Weight	17.27kg	
Warranty	Three year on-site, next business day	

DESCRIPTION	RAM	HDD	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Netfinity 3000 PIII 650	64MB	Open Bay	64-70-86	814.67	➧	819.99	817.94	NEW
Netfinity 3000 PIII 650	64MB	9.1GB	64-23-44	1045.79	➧	➧	1049.99	NEW
Netfinity 3000 PIII 700	64MB	Open Bay	64-12-95	899.12	➧	904.99	902.73	NEW
Netfinity 3000 PIII 700	64MB	9.1GB	64-39-49	1130.46	➧	➧	1134.99	NEW
Netfinity 3500 M20 PIII 733	128MB	Open Bay	64-28-25	CHECK ONLINE	➧	➧	FREE Call	NEW
Netfinity 3500 M20 PIII 800	128MB	Open Bay	64-98-71	CHECK ONLINE	➧	➧	FREE Call	NEW

OTHER ITEMS

FOR IBM FILESERVER ACCESSORIES SEE PAGE 184

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FILESERVERS

IBM™



Delivering serious power, scalability and manageability in a tower, the **Netfinity 5000** from **IBM** supports e-business, large enterprise applications and small and medium-business network systems. This range is designed to offer more scalability and has the added feature of being able to be rackmounted, so it can be integrated into a secure enclosure for ultimate security. The wealth of IBM's enterprise computing expertise is delivered to your Intel-based Netfinity Server, complete with unrivalled systems management and capacity planning software.

The **Netfinity 5000 Business Model** includes all of the features of the Netfinity 5000 with the addition of 18.2GB of hot swappable hard disks in the form of 2 or 3 9.1GB drives.

The IBM **Netfinity 5600** server has the power, scalability and manageability today's complex network systems demand. There's support for two-way SMP, integral tape drives and the ultra-fast 10,000rpm hard disk drives. Fully in step with Intel's processor technology, the Netfinity 5500 is an affordable, powerful and reliable foundation upon which you can run your business-leading performance from the new Intel Pentium III processors (with the new 100MHz front-side bus for extremely fast memory access), with 100MHz SDRAM memory, integrated dual-channel Wide Ultra SCSI RAID and integrated 10/100 Ethernet.

Model	Netfinity 5000	Netfinity 5600
Processor	Intel Pentium III (650 or 700MHz)	Intel Pentium III (733 or 800MHz)
RAM	128MB ECC SDRAM (exp. to 2GB)	256MB ECC SDRAM exp. to 1GB
Hard drive	0GB or 3×9.1GB	0GB or 3×9.1GB
Floppy drive	3½" 1.44MB	
CD-ROM drive	32×, 40× M5500 M20 models	
Keyboard	102 key	
Expansion slots	3×PCI, 2×PCI/ISA	6×PCI, 1×ISA
Drive bays	6×3½" (5 available), 2×5¼" (1 available)	7×3½" (6 available), 3×5¼" (2 available)
Ports	Parallel, 2×serial, monitor, keyboard, mouse, 2×USB	
Dimensions (W×D×H)	218×694×432mm	484×700×530mm
Weight	29kg	55kg
Warranty	Three year on-site	

	DESCRIPTION	PROCESSOR	RAM	HDD	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	Netfinity 5000	PIII 650MHz	128MB	Open Bay	64-78-77	1546.12	▶	▶	1549.99
NEW	Netfinity 5000	PIII 700MHz	128MB	Open Bay	64-78-78	1628.46	▶	▶	1634.99
NEW	Netfinity 5600	PIII 733MHz	256MB	Open Bay	64-82-43	3496.49	▶	▶	3499.99
NEW	Netfinity 5600	PIII 800MHz	256MB	Open Bay	64-15-35	3776.21	▶	▶	3779.99

OTHER ITEMS
FOR IBM ACCESSORIES SEE PAGE 182

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶ Save £££'s!
▶▶ Check live stock
▶▶ Track order status

NETFINITY FILESERVER ACCESSORIES

IBM™

DESCRIPTION	FOR USE WITH NETFINITY	PART NO	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
64MB 100MHz ECC RDIMM	5000	01K7241	63-69-17	144.81	◗	149.99	148.49
128MB 100MHz ECC RDIMM	5000/5500	01K7262	63-69-24	308.94	◗	319.99	316.79
256MB 100MHz ECC RDIMM	5000/5500	01K8043	63-69-31	627.55	◗	649.99	643.49
512MB 100MHz ECC RDIMM	5000/5500	01K7263	17-53-47	1599.36	◗	◗	1639.99
32MB 100MHz ECC	1000/3000	01K1133	25-67-37	66.90	69.99	69.29	68.60
64MB 100MHz ECC	1000/3000/3500	01K1130	62-16-78	86.01	89.99	89.09	88.20
128MB 100MHz ECC	1000/3000/3500	01K1131	25-67-20	169.91	◗	175.99	174.23
9.1GB 7200 Wide Ultra2 SCSI HDD	1000/3000/3500	20L0553	63-18-09	266.46	◗	275.99	273.23
18GB 7200 Wide Ultra SCSI HDD	1000/3000/3500	20L0554	63-49-85	415.15	◗	430.00	425.70
9.1GB Wide Ultra SCSI SCA-2 SL HDD	5000/5500/7000	01K8053	24-19-17	299.29	◗	309.99	306.89
18.2GB Wide Ultra SCSI SL HDD	5000/5500/7000	02K0440	63-54-48	565.76	◗	585.99	580.13
36.4GB Wide Ultra SCSI HDD	5000/5500/7000	02K0441	63-95-52	999.59	◗	◗	1024.99
18GB 10k Wide Ultra SCSI SCA-2 HDD	5000/5500/7000	01K8503	24-19-17	299.29	◗	309.99	306.89
9.1GB 10k-3 Wide Ultra SCSI SL HDD	5000/5500/7000	36L9806	63-12-85	385.22	◗	399.00	395.01
ServeRAID 3L Ultra2 SCSI Adaptor	All models	01K7364	13-93-97	569.62	◗	589.99	584.09
ServeRAID 3HB Ultra2 SCSI Adaptor	All models	37L6086	64-18-18	1377.35	◗	◗	1377.35
ServeRAID 3H 32MB/Battery-backup cache	All models	28L1003	64-18-90	231.70	◗	239.99	237.59
PCI Fast/Wide Ultra SCSI Adaptor	All models	02K3454	63-17-21	193.08	◗	199.99	197.99
Second 'B' Drive for Magstar MP 3570–B21	5000/5500/7000/8500R	08L6541	64-70-72	4775.99	◗	◗	4799.99
Second 'C' Drive for Magstar MP 3570-C21	5000/5500/7000/8500R	08L6487	64-23-06	7399.99	◗	◗	7399.99
3570 Adaptor Card Kit	5000/5500/7000/8500R	08L6517	64-49-84	285.77	◗	295.99	293.03
35/70GB Internal DLT Tape Drive in Stealth Black	5500	04K0149	25-56-04	4192.65	◗	◗	4192.65
10/20GB NS Internal SCSI Tape Drive	1000/3000/3500/5000	01K1319	62-17-02	386.18	◗	399.99	395.99
20/40GB DLT Internal Tape Drive	5500/5600	01K1320	25-55-56	1560.35	◗	◗	1599.99
12/24GB DDS/3 4mm Internal Tape Drive	1000/3000/3500/5000	01K1282	68-23-56	568.66	◗	589.00	583.11
20/40GB 8mm Internal SCSI Tape Drive	3500/5000/5500/5600	01K1325	64-54-43	2414.41	◗	◗	2450.99
40/80GB DLT Internal Tape Drive	5500/5600/7000	00N7990	64-95-42	4477.49	◗	◗	4499.99
20/40GB DDS/4 4mm Internal Tape Drive	1000/3000/5500/5600	00N7991	64-18-91	810.99	◗	839.99	831.59
APC Smart-UPS 1000	1000/3000/5000 Series	SUP102Y	63-69-55	363.01	◗	375.99	372.23

OTHER ITEMS

FOR HEWLETT-PACKARD FILESERVERS SEE PAGES 180, 181
FOR IBM FILESERVERS SEE PAGES 184, 185

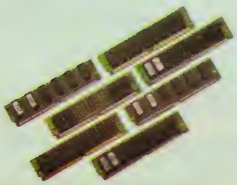
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

INDEX BY PRODUCT TYPE

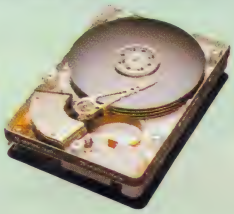
2½" Hard Disk Drives 227
3.5" IDE/SCSI Hard Disk Drive 215
3D Shutter Glasses 232
CD-ROM Drives 243
CD-Writers 244
Computer Cases 213
Data Storage Enclosures 230
Digital Video Cards 237
DIMM Modules – Compatibility Chart ... 204
Graphics Cards 231-235
Guide to – PC Components & Upgrades . 187
Guide to – Storage 214
Hard Disk Drives 224-226
Hard Disk Drives – 2½" EIDE 228
Hard Disk Drives – 3.5" IDE 223
Hard Disk Drives – 3½" EIDE 220, 222
Hard Disk Drives – 3½" SCSI 219, 222
Hard Disk Drives – Internal 3½" EIDE ... 218
Hard Disk Drives – Internal 3½" SCSI ... 218
Hard Disk Drives – Internal EIDE Kits ... 216
Hard Drive Caddy Adaptor 229
Hard Drives – Internal 3½" SCSI 221
Hard Drives – Upgrade Kits 229
ISA/PCI Function Cards 242
Memory Upgrades 192-202
Memory Upgrades – DIMM Modules 203
Memory Upgrades – Guide 190
Memory Upgrades – SIMMs 202
Motherboards 210-212
PC Cases 213
PC Function Cards 241
PCMCIA Hard Disk Drives 226
Power Supply 241
Processors 206-208
Processor Upgrades 208-209
RAID Adaptors 240
RAM Upgrades 198
Re-Writers 244
SCSI Adaptors 239-240
SCSI Cards 238
Service Kit 191
Sound Cards 236
Static Wrist Strap 191
TV 237

INDEX BY MANUFACTURER

3dfx
Graphics Cards. 233
Adaptec
RAID Adaptors. 240
SCSI Adaptors. 239–240
SCSI Cards. 238
Amacom
CD-Writers. 244
Hard Disk Drives. 226
Re-Writers. 244
AMD
Processors. 207–208
Aopen
Computer Cases. 213
Motherboards. 212
PC Cases. 213
ATI
Graphics Cards. 234
Aztech
Sound Cards. 236
Boca
PC Function Cards. 241
Compaq
Hard Disk Drives. 224
Connex
Anti-Static Wrist Straps. 191
Creative Labs
Sound Cards. 236
Diamond
Graphics Cards. 235
DPT
RAID Adaptors. 240
SCSI Adaptors. 240
ELSA
3D Shutter Glasses. 232
Graphics Cards. 232
Evergreen
Processor Upgrades. 209
Freecom
Hard Drives – Upgrade Kits. 229
Fujitsu
3.5" IDE/SCSI Hard Disk Drive. 215
GigaByte
Motherboards. 210
Hauppauge
Digital Video Cards. 237
TV. 237
Hewlett-Packard
CD-Writers. 244
Hard Disk Drives. 225
Re-Writers. 244
Hitachi
Hard Disk Drives – 2½" EIDE. 228
IBM
2½" Hard Disk Drives. 227
Hard Disk Drives. 225
Hard Disk Drives – 3½" EIDE. 222
Hard Disk Drives – 3½" SCSI. 222
Integral
DIMM Modules – Compatibility Chart. 204
Memory Upgrades. 200–202
Memory Upgrades – DIMM Modules. 203
Memory Upgrades – SIMMs. 202
Intel
Processors. 206
Kingston
Data Storage Enclosures. 230
Memory Upgrades. 192–198
Processor Upgrades. 208
Lian-Li
Hard Drive Caddy Adaptor. 229
Macase
Computer Cases. 213
PC Cases. 213
Matrox
Graphics Cards. 231
Maxtor
Hard Disk Drives – 3.5" IDE. 223
Micron Technology Inc.
Memory Upgrades. 198
Mitsumi
CD-Writers. 244
Re-Writers. 244
MSI
Motherboards. 211
Oyster Computers
ISA/PCI Function Cards. 242
Piiceon
Memory Upgrades. 199
Portable Add-ons
PCMCIA Hard Disk Drives. 226
Quantum
Hard Disk Drives – 3½" EIDE. 220
Hard Drives – Internal 3½" SCSI. . . . 221
Seagate
Hard Disk Drives – 3½" EIDE. 218
Hard Disk Drives – 3½" SCSI. . . 218–219
Toshiba
CD-ROM Drives. 243
Hard Disk Drives. 225
Hard Disk Drives – 2½" EIDE. 228
Tyan
Motherboards. 212
Western Digital
Hard Disk Drives – Internal EIDE Kits. 216
Hard Disk Drives – 3½" SCSI/IDE. . . 217







PC COMPONENTS GUIDE

The PC Components section exists to make it easier for you to find everything you will need to accompany your new PC or even build your own! It includes a wide range of accessories, both branded and unbranded, at very competitive prices.

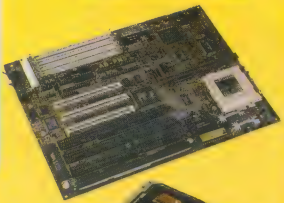
We feature a wide range of branded and unbranded memory for both desktop PCs and notebooks, including PC 100 memory compatible with BX chipset motherboards. With modern software requiring more memory, the amount of RAM in your PC has become as important as the type of processor. If you cannot find your system listed in the catalogue, please try our memory configurator at www.action.com where we have memory for nearly every system on the market today.







The motherboard and CPU are the very core of a PC, linking all other components and providing the processing power for the overall system. We offer a complete range of motherboards, including boards with the latest Socket 370, from manufacturers such as **MSI, GigaByte** and **Abit**. Our CPUs and CPU upgrades come from manufacturers such as **Intel, AMD, Evergreen** and **Kingston** which include the latest Pentium III Coppermine processors with the latest 133MHz FSB.



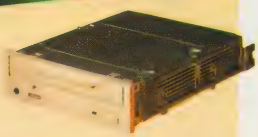
The amount of data today's PC needs to process, transfer, store and display is increasing dramatically. We feature a complete range of hard disk drives for the home user and for the business user. Our drives come from manufacturers such as **Toshiba, Western Digital, Quantum** and **Seagate.** These high quality drives are available with a wide range of specifications allowing you to select the right product to exactly suit your requirements.



Today's games, applications and the Internet demand fast video performance. We offer a complete range of graphics cards from brands such as **3dfx, Matrox, Diamond, Creative Labs** and **ATI**. Ranging from entry level cards to high performance dedicated 3D accelerators, these cards provide for all today's graphics, multimedia and gaming needs.



Also included in this section is a range of CD-ROM drives, PC cases and controller cards including **Adaptec's** extensive range of SCSI cards for both desktop and portable PCs.



OTHER ITEMS

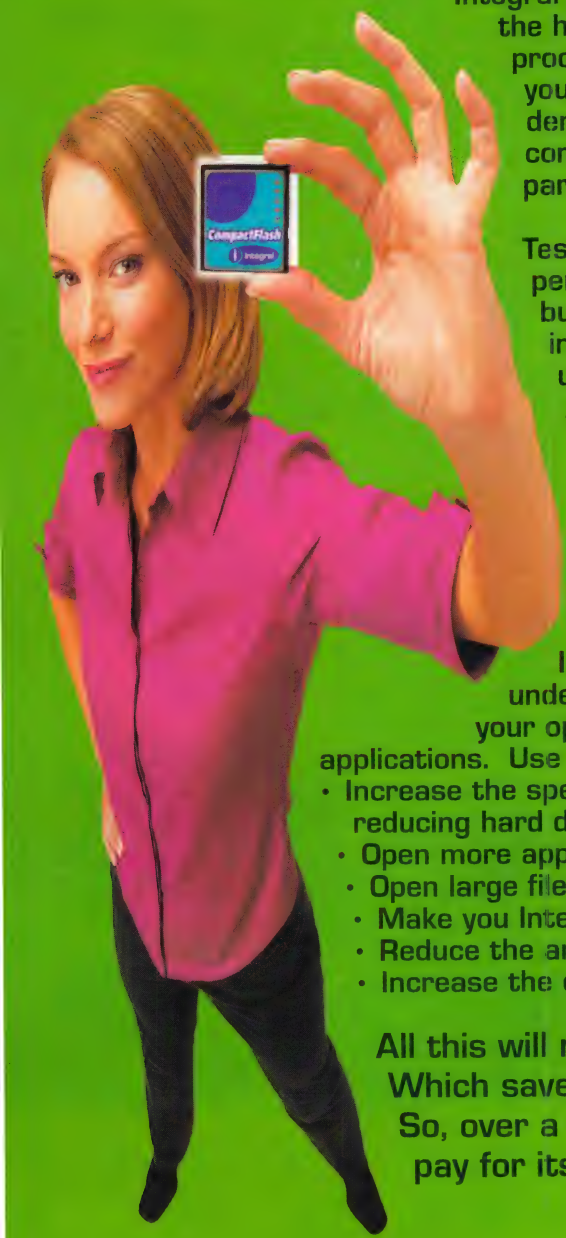
FOR NOTEBOOK PCs & ACCESSORIES SEE PAGES 67–79
FOR DESKTOP PCs & ACCESSORIES SEE PAGES 136–152

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

integral

Integral Memory

Quality - Reliability - Compatibility



Integral Memory is produced using the highest quality materials and processes. To bring you memory you can rely on under the most demanding conditions, where compatibility and reliability are paramount.

Tests have shown that system performance under normal business applications can increase by over 40%. When upgrading from 32MB to 96MB. Also if you are running Windows '98 your system should be upgraded to least 96MB to benefit from optimum performance *

6 ways extra memory can increase your performance

Integral is designed to perform under the toughest demands of your operating system and applications. Use Integral memory to

- Increase the speed of your machine by reducing hard disk access.
- Open more applications at the same time
- Open large files such as hi-res. images.
- Make you Internet surfing smoother.
- Reduce the amount of memory related errors.
- Increase the efficiency of your network server.

All this will make you more productive - Which saves time and money. So, over a short time the memory could pay for itself.

Quality - Reliability - Compatibility

If you need to upgrade a desktop, laptop, camera printer or server -

Integral Memory is the answer

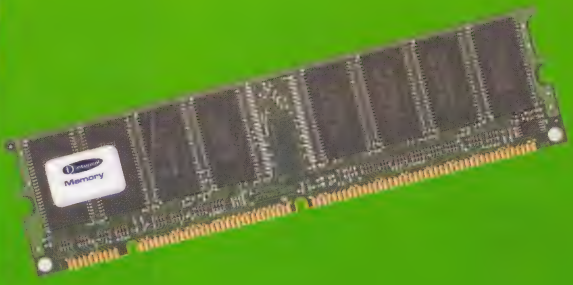
Integral Memory for Desktop, Servers and Laptops
(pages 200, 201, 203, 204)
To ensure that you get the optimum performance from your system. Integral produce a range to cover almost every system, including the latest memory hungry Pentium PIII's

Integral Digital Memory (page 343)
To make sure you get the most out of the digital revolution. Integral produces digital memory, for digital cameras, MP3 players and notebooks. The range includes adapters and readers.

Integral Printer Memory (page 438, 439)
Install Integral memory to increase the speed and capability of your printer especially with high-density graphics, pictures and fonts.

Integral Standard Memory (page 202)
Integral offers the full range of high spec standard memory.

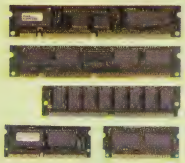




Visit our online Integral memory configurator at www.action.com

Lower prices on-line at action.com

GUIDE TO MEMORY UPGRADES



When anyone uses the term 'memory' in the context of PCs and upgrades, they are most commonly referring to 'RAM' (Random Access Memory). RAM is used to temporarily store the operating system, application programs and data in current use so that the processor is able to access them quickly. While RAM is much faster than other storage media such as the hard disk, floppy disk or CD-ROM, the information will only remain while the computer is switched on.

RAM has consistently proven to provide the best system boost over the more expensive upgrades such as a new processor. For example, a recent study showed that replacing 16MB of memory with 64MB can raise performance by as much as 63% whereas an earlier test rated a PII 233MHz to PII 300MHz upgrade as achieving only a 6% gain.

Visit www.action.com and click on the Integral Memory Configurator to ensure compatibility with your PC.

Integral memory is produced using the highest quality materials and processes. Any memory module is only as good as the chips used to manufacture it. This is why Integral insist on only quality driven major producers like Samsung, Hyundai and Siemens for its chip and module supply.

Some other memory producers will include lower quality chips and boards from price driven manufacturers. This can affect the reliability and compatibility of a memory module. So, to guarantee that your memory will perform under the most demanding conditions insist on Integral.

Deciphering Memory Jargon

There are a number of terms and phrases used to describe types of memory module. Listed here you will find some of the important terminology to help you decide what type of RAM would best suit your needs.

SIMMs: Single In-line Memory Modules (SIMMs) are the most basic type of memory module currently available and come in either 72-pin, suitable for early Pentiums and later 486s, and 30 pin, used by earlier 386s. These modules use a single electrical contact for all the RAM chips on the card and therefore need to be installed in pairs.

DIMMs: Dual In-line Memory Modules (DIMMs) are the current standard for system RAM and can be used in all of the latest and mid-level PCs. These differ from SIMMs because they form two isolated electric contacts with the memory slot and therefore require only one module to function.

SODIMMs: Small Outline DIMMs (SODIMMs) are aimed at the portable computer market due to their small size and are therefore most suited to notebook and small desktop PCs.

Parity: This refers to the technique of checking whether data has been lost or written over when it's moved from one place to another. This is now quite a basic measure of data checking as it only alerts an error and has recently been superceded by ECC.

ECC: This stands for Error Checking and Correcting and does a similar job to parity but develops on this by also correcting an error when it is discovered.

Speed: The speed of a memory module dictates how quickly the RAM communicates with the system bus. DRAM is measured in nanoseconds (ns) with most early Pentiums requiring 60ns and older systems between 70 and 80ns. SDRAM memory is measured in MHz and must always be the same speed as your system bus.

Action stocks an extensive range of proprietary memory which have been manufactured to exactly suit your system. These modules are each given a manufacturer's number which will correspond with a reference in your manual for you to match up, or alternatively, we have a pre-sales technical team (**08701 66 44 44**) who can tell you exactly which module will work in your system. If in any doubt, always call this number or use Action's on-line memory configurator.

Kingston TECHNOLOGY



Kingston Technology is a leading manufacturer of proprietary memory and can supply modules for almost every system on the market. Action stock a wide range of Kingston memory which can be found in this section and more extensively on our website at **www.action.com**. To help you select the correct module, you will also find an online configurator with which you can search using manufacturer, part number or specification.

OTHER ITEMS

FOR MOTHERBOARDS SEE PAGES 212–213
FOR PC CASES SEE PAGE214
FOR PROCESSORS & UPGRADES SEE PAGES 206–210

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ANTI-STATIC BAGS

Connex

Memory upgrades are proven to be the least expensive and most effective way of upgrading your PC. When installing and storing Memory modules, the major concern relates to Electrostaic Discharge (ESD), commonly known as static electricity. This can occur due to dry air, walking across a carpet, wearing a sweater, touching animal or human hair, and various other ways. This static can 'jump' from you to an electronic component in your system, *cause integrated circuit damage* or *destroy* your system memory. **Transparent Metallized Anti-static Shield Bags** are designed for packaging products that are very sensitive to low-level static discharges. The bags have a inner layer designed to prevent charge build-up and an outer layer designed to provide static shielding to protect contents from external sources of static charge. Bags are dark in colour but transparent enough to allow for parts to be identified without opening bags.

- High quality metalised shielding bags.
- Supplied in packets of 30.



DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Anti-static Bag 200 × 200mm (30 pk)	06-64-53	9.50	9.95	9.85	9.75
Anti-static Bag 250 × 350mm (30 pk)	06-64-60	14.50	14.95	14.85	14.75

SERVICE KIT

Mills

The Static Safe Field Service Kit provides everything you need to carry out maintenance or installations on static sensitive equipment.

FEATURES:

- Wrist strap.
- Coiled earth cord.
- Bench mat.
- CRP mat.
- Connector lead plug to mat.
- Carrying pouch.



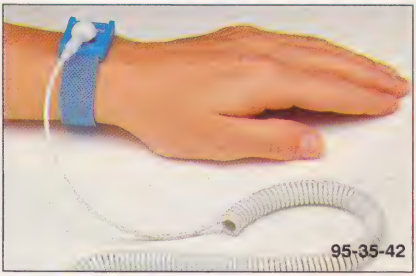
STATIC WRIST STRAP

Connex

Integrated circuits are very prone to static damage and we therefore recommend the use of a static wrist strap for all these operations.
Connex static wrist straps are for use when carrying out delicate operations involving all kinds of electronic maintenance such as installing memory chips, fitting co-processors and installing boards into a PC.

FEATURES:

- 2m coiled earthing cord.
- Crocodile clip and connector.
- Press stud termination at wrist strap.
- Built-in 4Mohm resistor.



Static Safe Field Service Kit – **See page 664**	95-18-67	38.50	38.95	38.85	38.75
Adjustable Static Wrist Strap	95-35-42	17.30	17.99	17.89	17.79

OTHER ITEMS
FOR GUIDE & PROCESSORS SEE PAGES 206–210
FOR PC TOOLS SEE PAGES 631–636
FOR GUIDE TO SECURITY SEE PAGE 541

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

MEMORY UPGRADES

Kingston TECHNOLOGY

Installing Kingston memory improves system performance and your productivity. This means you can achieve up tp 63% more in a day. To access the efficiency of your PC memory visit www.action.com – we can configure your memory on-line and show you what a life outside work could be like.

DESCRIP.	FOR USE WITH	OEM PART NO	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Products for APPLE – All memory in single modules unless kit is specified. Kits = 2× modules							
64MB	iBook	n/a	66-73-27	58.76	65.95	63.97	62.05
128MB	iBook	n/a	64-39-86	125.46	◗	129.95	128.65
64MB	iMac 350, 400 Special Edition, 400DV	n/a	83-96-72	56.08	62.95	61.06	59.23
128MB	iMac 350, 400 Special Edition, 400DV	n/a	92-23-33	116.60	◗	126.95	123.14
64MB	Power Mac Server G4, Power Mac G4 350/400PCI, 400/450/500 AGP	n/a	87-03-67	56.08	62.95	61.06	59.23
128MB	Power Mac Server G4, Power Mac G4 350/400PCI, 400/450/500 AGP	n/a	29-30-46	116.60	◗	126.95	123.14
Products for COMPAQ – All memory in single modules unless kit is specified. Kits = 2× modules							
64MB	Deskpro EN & EP 6350, 6400, 6450 & SFF; Prosignia Desktop 330, 6350, 6450.	166613-B21	55-47-76	56.08	62.95	61.06	59.23
64MB	Deskpro EN & EP 6350, 6400, 6450 & SFF; Prosignia Desktop 330, 6350, 6450.	166617-B21	55-47-90	66.86	69.95	69.25	68.56
64MB Kit	Deskpro XL 450, 466, 5100, 5120, 5133, 560, 566, 575, 590; ProLiant 1500;1500R; ProSignia 300; 500 (Pentium)	148191-001, 148191-291	97-55-51	192.84	◗	209.95	203.65
128MB	Deskpro 2000 5166X, 5233X, 6233X, 6300X; Deskpro 4000 5166X, 5200X, 6300X etc	270812-B21	69-16-77	115.68	◗	125.95	122.17
64MB	Deskpro 2000 5166X, 5233X, 6233X, 6300X; Deskpro 4000 5166X, 5200X, 6300X etc	242805-B21	88-63-96	56.08	62.95	61.06	59.23
64MB Kit	Deskpro 2000, 4000, 6000 Models 5100, 5120/1200, 5133, 5166,6200 etc. Presario 2101	243014-002, 243116-001, 185207-002	98-54-24	156.10	◗	169.95	164.85
64MB	Deskpro 6000 6233X, 6333X etc.; Deskpro EN 6266, 6300, 6333, C300, C333; Deskpro EN 6266 66MHz Small Form Factor etc	270842-B21	69-29-82	66.90	69.99	69.29	68.60
128MB non ECC	Deskpro EN 6600 (PIII-82ORD) small form factor	n/a	69-30-96	381.13	◗	414.95	402.50
128MB ECC	Deskpro EN 6600 (PIII-82ORD) Small Form Factor	n/a	69-53-49	390.32	◗	424.95	412.20
64MB Kit	ProLiant 1500 5/133, 1500 5/166, 1500R 5/133, 1500R 5/166; ProSignia 300 5/150	169171-001, 169171-291	99-60-59	192.84	◗	209.95	203.65
64MB	ProLiant 1500 FlexSMP, 2500, 2500R; Professional Workstation 5100, 6000 6266 (2D), 8000 etc	271908-001	99-64-06	131.30	◗	142.95	138.66

OTHER ITEMS

FOR GUIDE TO MEMORY SEE PAGE 197
FOR PROCESSORS & MOTHERBOARDS SEE PAGES 206–213

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

MEMORY UPGRADES

Kingston TECHNOLOGY

DESCRIP.	FOR USE WITH	OEM PART NO	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Products for COMPAQ – *cont.* All memory in single modules unless kit is specified. Kits = 2× modules								
64MB	Armada 1505DM, 1590DMT, 7350MT, 7792MT etc	220685-001, 220685-291, 273158-001	41-87-02	115.68	➧	125.95	122.17	✂
64MB Kit	Armada 4100, 4110,4120, 4125D, 4130T, 4131T, 4150, 4160T Slimline, 4210T, 4220T	287325-B21	29-27-84	116.60	➧	126.95	123.14	✂
32MB	Armada 6500	358918-B21	85-75-02	43.65	48.99	47.52	46.09	✂
64MB	Armada SB 6233; 1500c; 1700; 1750; 3500; 7400; 7800; Notebook 120, 122, 6233, 6266	314891-B21, 313918-001	55-50-05	76.46	79.99	79.19	78.40	✂
256MB	Armada E500 6366, 6400 (PII); P3450, E700 6400 (PII), 6500 (PIII); M700 6366, 6400 (PII); 6450, 6500 (PIII)	n/a	69-17-65	509.72	➧	554.95	538.30	✂
64MB	Armada E700 6400; Armada M300 6333, C333; Armada M700 6366, 6400	400312-B21	67-22-64	76.46	79.99	79.19	78.40	✂
128MB	Armada E700 6400; Armada M300 6333, C333; Armada M700 6366, 6400	400313-B21	67-70-21	125.50	➧	129.99	128.69	✂
16MB	C-Series 1020C, 810C, 810	314517-B21	20-14-00	31.17	34.99	33.94	32.92	✂
64MB	Aero 8000	101858-B21	69-17-17	58.76	65.95	63.97	62.05	✂
128MB	Presario 1255, 1260, etc., 1600i-266, 1600i-366 etc., 1900-266, 1900-366, 1920 etc	314856-002	31-35-25	123.95	➧	134.95	130.90	✂
128MB	Presario 2260, 2274,etc., 4620, 4640, etc., 4808, 4816 etc., 4840, 4850, etc	309082-001	90-52-45	117.52	➧	127.95	124.11	✂
128MB Kit	Proliant 5500, 5500R, 6000,6500, 7000 series	328580-B21	16-07-68	324.18	➧	352.95	342.36	✂
64MB	ProLiant 400	401703-B21	64-23-96	63.21	70.95	68.82	66.76	✂
Products for DELL – All memory in single modules unless kit is specified. Kits = 2× modules								
64MB	OptiPlex GnM Series; Gn Series; Gn+ Series; N Series	311-0506	55-50-12	116.60	➧	126.95	123.14	✂
128MB	OptiPlex GnM, Gn, Gn+, N Series	311-0507	15-56-70	243.36	➧	264.95	257.00	✂
64MB	OptiPlex GXa Series	311-0277	69-17-25	66.90	69.99	69.29	68.60	✂
128MB	OptiPlex GXa Series	311-0279	42-62-51	129.46	➧	140.95	136.72	✂
64MB	OptiPlex E1 300, 333	311-0454, 311-0455, 311-0494	15-56-18	56.12	62.99	61.10	59.27	✂
64MB	OptiPlex GXiL/M/MT 5133, 5166, 5200; OptiPlex GXpro 6180, 6200	311-0188	41-48-54	140.48	➧	152.95	148.36	✂
128MB	OptiPlex GXiL/M/MT 5133, 5166, 5200; OptiPlex GXpro 6180, 6200	311-0189	69-17-01	271.83	➧	295.95	287.07	✂
32MB	OptiPlex GXpro 6180, 6200	n/a	85-71-50	81.96	91.99	89.23	86.55	✂

OTHER ITEMS

FOR GUIDE TO MEMORY SEE PAGE 190
FOR PROCESSORS & MOTHERBOARDS SEE PAGES 206–217

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

MEMORY UPGRADES

Kingston TECHNOLOGY

DESCRIP.	FOR USE WITH	OEM PART NO	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Products for DELL – *cont.* All memory in single modules unless kit is specified. Kits = 2 × modules.							
128MB	Inspiron 3500 D233XT, D266GT, K366GT etc.; 7000 A333GT, D266XT, etc.; Latitude CPi A300ST etc	311-0654, 311-0651, 311-0725	62-96-70	121.20	➧	131.95	127.99
64MB	Inspiron 3700 400 (PII), 450/500 (PIII), C433; C466; 7500 400 (PII), 450/500 (PIII), Latitude CPx H500GT	311-1441, 311-1405	69-17-23	72.12	80.95	78.52	76.17
128MB	Inspiron 3700 400 (PII), 450/500 (PIII), C433; C466; 7500 400 (PII), 450/500 (PIII), Latitude CPx H500GT	311-1412	47-16-38	120.28	➧	130.95	127.02
64MB Kit	Dimension XPS P60, P75, P90; OptiPlex XL/XM/XMT	310-3368	25-34-24	170.83	➧	185.99	180.41
64MB Kit	Dimension XPS P100C, P166C etc.; XPS Pro 150n, etc.; OptiPlex GL/GM/GMT GXL/GXM/GXMT 5100 etc., GsL/GsM/GsMT 5133, etc	311-0004, 310-3061	87-99-94	157.02	➧	170.95	165.82
128MB	Dimension XPS B667RB, 733RB, 600RB, 533RB, Precision Workstation 220 667RB, 733RB, 533RB	n/a	69-94-79	406.85	➧	442.95	429.66
32MB	PowerEdge 2100/180, 2100/200, 2200, 4100, 4200	93411	68-05-61	70.38	78.99	76.62	74.32
64MB	PowerEdge 4300 350/400/450; PowerEdge 4350 350/400/450	311-0393,311-0433,311-0384	62-96-87	63.21	70.95	68.82	66.76
64MB	PowerEdge 1300+2300 350/400/450/ Precision workstation 210 +410 400/450	n/a	15-58-76	64.10	71.95	69.79	67.70
32MB	Dimension M166a, M200a, P133a, P166a, P166v, P200v; XPS M166s, M200s, M233s, P133s, P133v, P166s, P200s	n/a	87-86-34	56.12	62.99	61.10	59.27
128MB	WorkStation 400	311-0306	68-62-35	270.91	➧	294.95	286.10
32MB	Latitude XPi CD M133ST, M166ST	n/a	68-04-99	58.79	65.99	64.01	62.09
32MB	Dimension XPS D233, D266, D300, D333	311-4020	68-04-75	67.70	75.99	73.71	71.50
Products for HEWLETT-PACKARD – All memory in single modules unless kit is specified. Kits = 2 × modules.							
32MB	Jornada 420, 820, 820e, Palmtop 620LX, 660LX, 360LX	n/a	38-28-91	55.19	61.95	60.09	58.29
48MB	Jornada 420, 820, 820e, Palmtop 620LX, 660LX, 360LX	n/a	64-77-28	78.39	87.99	85.35	82.79
64MB	Apollo 9000 Series 700 744/132L, 744/165L, 744rt/132L, 744rt/165L	A4503A	62-98-83	183.65	➧	199.95	193.95
64MB	NetServer E30 5/133, 5/166;E40 6/180, 6/200; E45 6/233, 6/266; E50; LX Pro 6/166,6/200; LXe Pro 6/166, 6/200; LXr Pro 6/200	D4290A	13-10-96	192.84	➧	209.95	203.65
64MB	Brio 7100 ; 8400 Series 8413/8434; Kayak XA Pentium II; Net Vectra; Vectra VE4,VE7; VL7	D5363A	69-18-11	56.98	63.95	62.03	60.17
64MB ECC	Kayak XA Pentium II; Kayak XU Pentium II; Kayak XW Pentium II; Vectra VL7	D5366A	42-60-48	63.21	70.95	68.82	66.76

OTHER ITEMS

FOR GUIDE TO MEMORY SEE PAGE 190
FOR PROCESSORS & MOTHERBOARDS SEE PAGES 206–213

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MEMORY UPGRADES

Kingston TECHNOLOGY



If your are unsure which memory is compatible with your PC, visit **www.action.com** and click onto the Kingston configuration.

DESCRIP.	FOR USE WITH	OEM PART NO	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Products for HEWLETT-PACKARD – *cont.* All memory in single modules unless kit is specified. Kits = 2 × modules.								
64MB Kit	2500C/Cse/Cxi Professional Series Color Printer; Brio 8000, 8100 Series; Pavilion 5235,7230P etc.; Vectra 500 series	D4543A	41-49-64	116.64	◗	126.99	123.18	✂
64MB	Brio 8500 Series; Kayak XA-s Pentium II; Net PC20; Vectra VE8; Vectra VL9	D6502A	62-07-72	56.08	62.95	61.06	59.23	✂
256MB ECC	Kayak XA Pentium II; Kayak XA-s Pentium II; Kayak XU PII Xeon;	D6743A	59-24-19	312.24	◗	339.95	329.75	✂
256MB Registered ECC Module	Kayak XU Pentium II; Kayak XW Pentium II	D6524A	45-78-99	326.02	◗	354.95	344.30	✂
128MB ECC	NetServer E60 PII 400/450, PIII 500	D7156A	52-98-09	151.54	◗	164.99	160.04	✂
64MB ECC	NetServer E60 PII 400/450, PIII 500	D7155A	22-51-73	64.10	71.95	69.79	67.70	✂
64MB ECC	NetServer LC 3, LH 3, LH 3r, LPr 350/400/450	D6097A	15-66-17	73.01	81.95	79.49	77.11	✂
32MB	Multimedia PC 6100 etc.; Pavilion 5010,7010, etc.; Vectra VL2; VL3; VE	n/a	87-59-81	84.60	94.95	92.10	89.34	✂
32MB	OmniBook 2100; OmniBook 3000CTX; OmniBook 3100 etc	F1364A	55-63-27	61.43	68.95	66.88	64.88	✂
32MB	OmniBook 2000, 5000C/CT/CTS, 5000VL, 5500CS, 5500CT, 5700	F1136A	25-41-48	107.42	◗	116.95	113.44	✂
32MB	OmniBook 900; OmniBook 2100 Models 2120T etc.; 4100 etc.; 7100 etc. OmniBook 7150 etc.; OmniBook XE, PII	F1456A	55-50-81	45.39	50.95	49.42	47.94	✂
32MB	OmniBook 800CS, 800CT	F1169A	15-62-91	67.67	75.95	73.67	71.46	✂
32MB	OmniBook XE, XE PII, XE2, XE2 PII; 4150 PII 300/333/366, PII 400, PIII 450/500; Pavillion N3110, N3150	n/a	90-37-48	45.39	50.95	49.42	(47.94	✂
64MB	OmniBook XE, XE PII, XE2, XE2 PII; 4150 PII 300/333/366, PII 400, PIII 450/500; Pavillion N3110, N3150	n/a	97-59-73	73.01	81.95	79.49	77.11	✂
128MB	OmniBook XE, XE PII, XE2, XE2 PII; 4150 PII 300/333/366, PII 400, PIII 450/500; Pavillion N3110, N3150	n/a	69-17-66	122.11	◗	132.95	128.96	✂
128MB ECC	Visualize P-Class Workstation P450/P500/P550; Visualize X-Class Workstation X500/X550	D5028A	39-61-02	131.30	◗	142.95	138.66	✂

OTHER ITEMS

FOR GUIDE TO MEMORY SEE PAGE 193
FOR PROCESSORS & MOTHERBOARDS SEE PAGES 206–213

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

MEMORY UPGRADES

Kingston TECHNOLOGY

DESCRIP.	FOR USE WITH	OEM PART NO	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Products for IBM. *All memory in single modules unless kit is specified. Kits = 2 × modules.*							
64MB NP	Aptiva 2140; Aptiva 2142; PC 300GL Celeron (6561); PC 300GL Pentium II	04K0071, 01K1106	68-93-35	56.98	63.95	62.03	60.17
64MB	Aptiva 2139; 2153; 2158; 2163; PC 300GL Celeron	01K1137	15-78-74	56.98	63.95	62.03	60.17
64MB Kit	Aptiva 2176	n/a	12-10-09	158.85	◆	172.95	167.76
64MB Kit	Aptiva 2136; 2134; 2159; PC 300 Series 330 (6577),Series 340 (6560), Series 350 (6587)	92G7324	69-19-21	158.85	◆	172.95	167.76
32MB	PC 700 Series 730 (6875),(6876); PC 700 Series 750 (6885), (6886); PC Server 320 (8640)	92G7205, 92G7206, O70P32Y	97-58-67	98.23	◆	106.95	103.74
32MB Kit	PC 300 Series 360 S200 (6598); PC 700 Series 730 (6877); PC 700 Series 750 (6887); PC Server 310 (8639)	92G7312, 85G4169, O2P327Y	15-91-95	97.31	◆	105.95	102.77
32MB ECC	PC 300PL (6562), (6592)	04K0081	68-07-67	94.56	◆	102.95	99.86
64MB NP	PC 300PL (6562), (6592)	04K0078	90-57-25	113.85	◆	123.95	120.23
32MB	PC 300GL (6272), (6282)	76H0251	68-07-29	68.56	76.95	74.64	72.40
64MB (EDO)	PC 300GL (6272), (6282)	76H0326	41-60-96	118.44	◆	128.95	125.08
64MB (EDO)	PC300GL PIII (6563-2xx, 4xx, 7xx), (6564-Sxx), (6574-2xx, 4xx)	33L3071	69-94-81	68.56	76.95	74.64	72.40
64MB ECC	PC300GL PIII (6563-2xx, 4xx, 6xx, 7xx). (6546-Sxx), 6574-2xx, 4xx)	33L3079	69-30-97	64.10	71.95	69.79	67.70
64MB ECC	IntelliStation E Pro 6893; IntelliStation M Pro 6889; Netfinity 3000 (8476); PC 300GL & PL Pentium II	01K1130	55-48-55	64.10	71.95	69.79	67.70
128MB Registered ECC	Netfinity 5000; Netfinity 5500 M10 8661-1xx, 2xx, 8661-3xx, 4xx	01K7262	62-97-42	171.71	◆	186.95	181.34
128MB	Netfinity 5500 (8660-1xx) 5500 (8660-4xx) 5500 (8660-5xx)	01K8023	15-91-26	131.30	◆	142.95	138.66
32MB	ThinkPad 365X/XD, 385E/ED, 535X, 760, 765, 380X MMX, 560/X etc.	n/a	86-29-56	59.65	66.95	64.94	62.99
64MB	ThinkPad 365X, 365XD, 385E/ED, 535X, 760 etc. 765 etc. 380/x Pentium MMX etc. 560/x etc	76H0268	41-30-51	118.44	◆	128.95	125.08
64MB	ThinkPad 390 Series; 600 & 600/E; 770/E/ED/X/Z; i Series	76H0295, 20L0241, 20L0242	41-48-23	62.36	69.99	67.89	65.85
64MB	ThinkPad 390x	20L0254	51-69-66	72.16	80.99	78.56	76.20
128MB	Thinkpad 390x	20L0255	86-42-70	123.07	◆	133.99	129.97

See www.action.com for more Kingston products

OTHER ITEMS

FOR GUIDE TO MEMORY SEE PAGE 190
FOR PROCESSORS & MOTHERBOARDS SEE PAGES 206–213

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

MEMORY UPGRADES

Kingston TECHNOLOGY

DESCRIP.	FOR USE WITH	OEM PART NO	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Products for PSION All memory in single modules unless kit is specified. Kits = 2 × modules.								
16MB	5 Series	CF/16	15-00-22	32.03	35.95	34.87	33.83	✂
32MB	5 Series	CF/32	38-28-91	55.19	61.95	60.09	58.29	✂
48MB C. Flash	5 Series	CF/48	64-77-28	78.39	87.99	85.35	82.79	✂
Products for SONY All memory in single modules unless kit is specified. Kits = 2 × modules.								
64MB Kit	VAIO PCG-505F, PCG-505FX, PCG-505G, PCG-505GX	PCGA-MM64SD-64M, PCGA-MM564SD	29-44-83	168.04	➧	182.95	177.46	✂
64MB	VAIO PCG-F250, PCG-F270, PCG-F280, PCG-F290	PCGA-MM764	64-18-22	73.01	81.95	79.49	77.11	✂
64MB	VAIO PCG-Z505S, PCG-Z505SX	n/a	64-31-39	73.01	81.95	79.49	77.11	✂
Products for TOSHIBA All memory in single modules unless kit is specified. Kits = 2 × modules.								
32MB	Portege 300CT, 310CT, 320CT	PA2053U	68-08-77	61.43	68.95	66.88	64.88	✂
64MB	Portege 3010CT, 3015CT	PA2067U	62-97-80	184.57	➧	200.95	194.92	✂
64MB	Portege 3110CT	PA2069U-K	64-95-09	80.14	89.95	87.25	84.63	✂
32MB	Portege 610CT, 620CT, Satellite100CS, 115CS, 200CDS, 210CT, Satellite Pro 400CDT, 405CS, Tecra 710CDT	n/a	96-76-62	86.38	96.95	94.04	91.22	✂
16MB	5 Series	CF/16	15-00-22	32.03	35.95	34.87	33.83	✂
64MB	Portege 650CT, 660CDT; Satellite 220CDS, 2500CDS, 2505CDS, 300CDS, Satellite Pro 440CDT, Tecra 520CDT, 750CDT	PA2044U, NW2044U	85-70-40	119.36	➧	129.95	126.05	✂
32MB	Satellite 155CDS, 2100CDS/CDT, 2105CDS	PA3003U-K	55-71-56	36.48	40.95	39.72	38.53	✂
64MB	Satellite 155CDS, 2100CDS/CDT, 2105CDS	PA3004U-K	24-43-06	61.43	68.95	66.88	64.88	✂
128MB	Satellite 155CDS, 2100CDS/CDT, 2105CDS	PA3005U-K	79-21-90	126.71	➧	137.95	133.81	✂
128MB	Tecra 500CDT/CS, Satellite 220CDS/CS, Satellite Pro 440CDT/CDX, 490CDT-NT	PA2042U, NW2042U	68-08-91	245.19	➧	266.95	258.94	✂
128MB	Tecra 520CDT, 530CDT, 540CDT, 550CDT	n/a	55-82-08	246.11	➧	267.95	259.91	✂
64MB	Tecra 710CDT, 720CDT, 730CDT, 730XCDT, 740CDT, 740CDT-NT	NW2045U, PA2045U	98-56-75	118.44	➧	128.95	125.08	✂
48MB	Tecra 500C/CS 510CDS/CDT, Satellite 220CDS/CS, 225CDS, Satellite Pro 440CDT/CDX, 490CDT–NT	PA2062U	68-08-84	144.16	➧	156.95	152.24	✂
24MB	T2100/CS/CT, T2105/CS/CT, T2110CS, T2155CDS	PA2061U	96-76-55	49.85	55.95	54.27	52.64	✂

OTHER ITEMS
FOR GUIDE TO MEMORY SEE PAGE 190
FOR PROCESSORS & MOTHERBOARDS SEE PAGES 206–213

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MEMORY UPGRADES

Kingston TECHNOLOGY



Kingston Technology is a leading manufacturer of proprietary memory and can supply modules for almost every system on the market. Action stock a wide range of Kingston memory which can be found in this section and more extensively on ***www.action.com****.*

DESCRIPTION	FOR USE WITH	OEM PART NO	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Products for TOSHIBA – *cont.* **All memory in single modules unless kit is specified. Kits = 2 × modules.**							
32MB	Libretto 100CT, 110CT, 110CT-NT	PA2059U	55-51-22	67.70	75.99	73.71	71.50
128MB	Tecra 8000 PII; Portege 7000CT, 7020CT, Satellite 4000CDS, 4025CDT, Satellite 4030CDT	PA2062U	25-99-54	146.95	◗	159.99	155.19
64MB	Tecra 8000 PII; Portege 7000CT, 7020CT, Satellite 4000CDS, 4025CDT, Satellite 4030CDT	PA2061U	14-11-27	76.46	79.99	79.19	78.40
64MB	Equium 7100S (Celeron) Series, Equium 7100S (PII) Series	PV9012E-RAM	55-81-74	56.12	62.99	61.10	59.27

MEMORY UPGRADES — MICRON TECHNOLOGY INC.

Mircon Technology, Inc, has established itself as one of the leading worldwide providers of semiconductor memory solutions. Micron's quality memory solutions serve customers in a variety of industries. Micron's mission is to be the most efficient and innovative global provider of semiconductor memory solutions and is exemplified in its short cycle times, high yields, low production costs, and die sizes that are some of the smallest in the industry.

DESCRIP.	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW Micron 32MB SDRAM 168 pin PC100	69-18-02	33.85	37.99	36.85	35.74
NEW Micron 64MB SDRAM 168 pin PC100	69-31-28	49.88	55.99	54.31	52.68
NEW Micron 64MB SDRAM ECC 168 pin PC100	69-53-84	66.90	69.99	69.29	68.60
NEW Micron 64MB SDRAM 168 pin PC133	69-95-03	57.34	59.99	59.39	58.80
NEW Micron 64MB SDRAM ECC 168 pin PC133	69-17-42	66.81	74.99	72.74	70.56
NEW Micron 128MB SDRAM 168 pin PC100	69-70-44	106.54	◗	115.99	112.51
NEW Micron 128MB SDRAM ECC 168 pin PC100	69-23-03	131.29	◗	135.99	134.63
NEW Micron 128MB SDRAM 168 pin PC133	69-49-63	115.85	◗	119.99	118.79
NEW Micron 128MB SDRAM ECC 168 pin PC133	69-12-60	134.09	◗	145.99	141.61
NEW Micron 256MB SDRAM 168 pin PC100	69-08-53	251.01	◗	259.99	257.39
NEW Micron 256MB SDRAM ECC 168 pin PC100	69-39-09	270.32	◗	279.99	277.19
NEW Micron 256MB SDRAM 168 pin PC133	69-27-84	257.17	◗	279.99	271.59
NEW Micron 256MB SDRAM ECC 168 pin PC133	69-36-91	279.98	◗	289.99	287.09
NEW Micron 64MB SODIMM PC100 144pin	69-98-41	61.47	68.99	66.92	64.91
NEW Micron 128MB SODIMM PC100 144pin	69-53-85	121.64	◗	125.99	124.73

OTHER ITEMS

FOR GUIDE TO MEMORY SEE PAGE 190
FOR PROCESSORS & MOTHERBOARDS SEE PAGES 206–213

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MEMORY UPGRADES — PIICEON

DESCRIPTION	MANUFACTURER PART NO	PIICEON PART NO	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
COMPAQ ARMADA M, V, S Series, Prosignia 170 Series							
32MB	400311-B21	905-3432	69-17-69	56.08	62.95	61.06	59.23
64MB	400312-B21	905-3464	69-30-99	115.49	◗	119.95	118.75
COMPAQ DESKPRO 2000 AND 4000 NON-MMX, DESKPRO 6000							
32MB Kit	243013-002	905-4032	64-70-22	66.49	74.95	72.70	70.52
64MB Kit	243014-002	905-4064	64-22-64	138.49	◗	143.95	142.51
COMPAQ DESKPRO 2000 AND 4000 MMX, DESKPRO EN, EP (333MHZ OR SLOWER)							
32MB	242804-B21	905-2732	64-29-49	52.49	58.95	57.18	55.47
64MB	242805-B21	905-2764	64-29-56	94.49	◗	102.95	99.86
128MB	270812-B21	905-2728	64-29-63	119.49	◗	129.95	126.05
COMPAQ DESKPRO EN, EP (350MHZ OR FASTER)							
32MB	166612-B21	905-3132	62-70-74	48.49	54.95	53.30	51.70
64MB	166613-B21	905-3164	62-70-81	60.49	67.95	65.91	63.93
128MB	166614-B21	905-3128	64-15-48	110.49	◗	119.95	116.35
DELL DIMENSION XPS D233, D266, D300, D333							
32MB	311-4020	914-6332	52-98-07	59.49	66.99	64.98	63.03
64MB	311-4010	914-6364	22-51-72	85.52	95.99	93.11	90.32
DELL OPTIPLEX E1, G1, DIMENSION XPS R350, R400, R450, T450, T500, V333, V350, V400, V433							
64MB	311-0408	914-8064	36-99-36	96.49	◗	104.99	101.84
128MB	311-0410	914-8028	53-77-37	122.49	◗	132.99	129.00
DELL OPTIPLEX GL, GM, GMT, GSL, GSM, GSMT, DIMENSION XPS P100C, P120C, P133C, P166C							
64MB Kit	311-0005	914-1664	77-82-92	152.46	◗	165.99	161.01
HP OMNIBOOK 900 PIII 450/500, OMNIBOOK 4150 PII & PIII							
32MB	F1456B	904-7432	69-53-55	55.49	61.99	60.13	58.33
64MB	F1457B	904-7464	69-94-83	78.49	87.99	85.35	82.79
HP VECTRA VE4, VL7, BRIO 7000							
64MB	D5363A	904-8864	64-32-61	65.00	72.99	70.80	68.68
TOSHIBA SATELLITE 300 SERIES, 490CDT, TECRA 520, 530, 540, 550, 750, 780, PORTÉGÉ 650CT, 660CDT							
64MB	PA2044U	908-7264	62-71-22	135.00	◗	139.99	138.59
TOSHIBA TECRA 8000 PII233, PII266, PII300, PII366							
64MB	PA2061U	908-8064	62-71-08	70.49	78.99	76.62	74.32
128MB	PA2062U	908-8028	64-15-62	135.49	◗	147.99	143.55
TOSHIBA TECRA 8000 PIII, SATELLITE 1555CDS, 2105CDS, 2105CDT, 2100CDS, 2100CDT							
32MB	PA3003U	908-8532	69-17-27	52.49	58.99	57.22	55.50
64MB	PA3004U	908-8564	69-70-25	109.49	◗	118.95	115.38

Other supported brands include Acer, AST, CISCO, DIGITAL, IBM, Olivetti, etc.

OTHER ITEMS

FOR MOTHERBOARDS SEE PAGES 212–213
FOR PC CASES SEE PAGES 214
FOR PROCESSORS & UPGRADES SEE PAGES 206–211

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

Lower prices on-line at action.com

DELL MEMORY UPGRADES

integral

DESCRIPTION	NO. OF MODULES INCLUDED	PART NO	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DIMENSION XPS PRO 150N – 200N, XPS P120CMT – P166CMT							
32MB Kit	2	311-3060	06-12-62	78.49	87.95	85.31	82.75
64MB Kit	2	311-3061	06-08-55	146.49	➧	159.95	155.15
DIMENSION XPS PRO 150, PRO 200**							
32MB Kit	2	311-3911	06-12-62	78.49	87.95	85.31	82.75
64MB Kit	2	311-3912	06-08-55	146.49	➧	159.95	155.15
128MB Kit	2	311-3913	06-36-92	207.49	➧	225.90	219.12
DIMENSION XPS M200S, XPS P133V – P200V, XPS M166S-MT							
32MB Module	1	n/a	64-08-57	57.90	64.99	63.04	61.15
OPTIPLEX GSL 500, GSM 500, GSMT 500							
32MB Kit	2	311-0003	06-12-62	78.49	87.95	85.31	82.75
64MB Kit	2	311-0005	06-08-55	146.49	➧	159.95	155.15
OPTIPLEX GXI 5133 – 5200/M5166 & M5200, GX PRO 6180, 6200							
32MB Module	1	311-0105	86-67-56	70.49	78.95	76.58	74.28
64MB Module	1	311-0188	86-67-63	109.99	➧	119.95	116.35
128MB Module	1	n/a	62-34-70	194.99	➧	212.95	206.56
OPTIPLEX GXA 6233L & 6266L							
32MB Module	1	n/a	64-17-71	64.99	72.95	70.76	68.64
64MB Module	1	n/a	13-11-06	67.49	75.95	73.67	71.46
128MB Module	1	n/a	64-30-98	241.49	➧	262.95	255.06
OPTIPLEX GN, GN+							
32MB Module	1	n/a	64-70-28	70.49	78.95	76.58	74.28
32MB Module	1	n/a	64-22-70	144.99	➧	157.95	153.21
128MB Module	1	n/a	64-49-52	210.99	➧	229.95	223.05
DIMENSION XPS D233, D266, D300							
32MB Module	1	n/a	64-53-56	65.00	72.99	70.80	68.68
64MB Module	1	n/a	64-94-86	115.99	➧	125.99	122.21
128MB Module	1	n/a	64-17-27	241.49	➧	262.95	255.06
DIMENSION XPS R350, R400, R450							
64MB Module	1	311-0408	55-47-21	51.49	57.95	56.21	54.53
128MB Module	1	311-0410	55-47-38	113.49	➧	123.95	120.23
64MB Module	1	311-0412	64-12-50	70.49	78.99	76.62	74.32
128MB Module	1	311-0413	64-08-41	132.49	➧	143.95	139.63

OTHER ITEMS

FOR MOTHERBOARDS SEE PAGES 212–213
FOR PC CASES SEE PAGES 214
FOR PROCESSORS & UPGRADES SEE PAGES 206–213

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
➧ Save £££'s!
➧ Check live stock
➧ Track order status

TOSHIBA RAM UPGRADES

integral

DESCRIPTION	FOR USE WITH	TOSHIBA PART NO	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
16MB RAM U/G	Tecra 740, Sat 110/200/210, Sat Pro 400/410/420/430, Portégé 610/620	PA2032U	98-97-67	37.49	41.95	40.69	39.47	✂
32MB RAM U/G	Tecra 740, Sat 110/200/210, Sat Pro 400/410/420/430, Portégé 610/620	PA2034U	98-97-74	63.49	70.99	68.86	66.79	
64MB RAM U/G	Tecra 710/720/730/740	PA2045U	98-97-98	104.49	◗	113.95	110.53	✂
128MB RAM U/G	Tecra 710/720/730/740	PA2046U	98-98-08	241.49	◗	249.95	247.45	
32MB RAM U/G	Sat 220/230/320, Sat Pro 440/460/480/490, Tecra 500/510	PA2040U	98-98-60	64.99	72.95	70.76	68.64	✂
32MB RAM U/G	Tecra 520/530/550/750/780, Portégé 650/660	PA2043U	85-94-26	52.49	58.99	57.22	55.50	✂
64MB RAM U/G	Sat 320/Tecra 520/530/550/750/780, Portégé 650/660	PA2044U	85-93-92	100.00	◗	108.95	105.68	✂
128MB RAM U/G	Tecra 550CDT	PA2054U	55-43-29	188.49	◗	204.99	198.84	✂
48MB RAM U/G	Sat 220/230, Sat Pro 440/460/480/490, Tecra 500/510	PA2041U	98-98-84	116.89	◗	126.95	123.14	✂
128MB RAM U/G	Sat 220/230, Sat Pro 440/460/480/490, Tecra 500/510	PA2042U	98-98-91	241.49	◗	249.95	247.45	
32MB RAM U/G	Libretto 100CT	PA2059U	55-42-57	76.49	79.95	79.15	78.36	
32MB RAM U/G	Sat 4000/4005, 4030CDS/T, 4060/4880XCDT Tecra 8000, Portégé 7000/7010	PA2060U	62-54-09	32.00	35.95	34.87	33.83	✂
64MB RAM U/G	As Above	PA2061U	62-60-20	53.49	59.95	58.15	56.41	✂
128MB RAM U/G	Sat 4000/4005, Sat 4030CDS/T, Sat 4060/4880XCDT Tecra 8000	PA2062U	62-60-37	119.49	◗	129.95	126.05	
32MB RAM U/G	Equium 6200M	—	86-67-56	70.49	78.95	76.58	74.28	✂
64MB RAM U/G	Equium 6200M	—	86-67-63	109.99	◗	119.95	116.35	✂
32MB RAM U/G	Equium 7000 Series	—	86-68-11	59.49	66.95	64.94	62.99	✂
64MB RAM U/G	Equium 7000 Series	—	86-68-28	57.49	64.95	63.00	61.11	✂
128MB RAM U/G	Equium 7000 Series	—	62-36-52	100.99	◗	109.95	106.65	✂
32MB RAM U/G	Portégé 3010CT, 3015CT, 3020CT	PA2063	64-31-13	58.49	65.95	63.97	62.05	
64MB RAM U/G	Portégé 3010CT, 3015CT, 3020CT	PA2067	64-31-20	164.49	◗	178.95	173.58	✂
32MB RAM U/G	Portégé 3110CT	PA2071U	86-87-08	46.49	51.95	50.39	48.88	✂
64MB RAM U/G	Portégé 3110CT	PA2069U	66-76-20	83.49	93.95	91.13	88.40	✂
64MB RAM U/G	Sat 155CDS, 2100CDS/CDT, 2105CDS	PA3003U-1M03	69-30-98	32.99	36.95	35.84	34.77	✂
SONY RAM UPGRADE								
32MB RAM U/G	Sony Vaio PCG-505F/FX/G/GX	VIO505G/GX	69-94-82	70.49	78.99	76.62	74.32	✂
64MB RAM U/G	Sony Vaio PCG-505F/FX/G/GX	VCSOVA10505/64	69-17-92	105.49	◗	114.95	111.50	✂

OTHER ITEMS

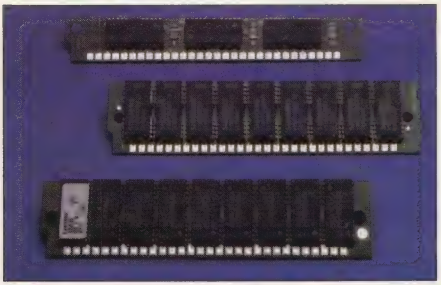
FOR TOSHIBA NOTEBOOK PCs SEE PAGES 82–91
FOR TOSHIBA DESKTOP PCs SEE PAGES 164–166

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

Lower prices on-line at action.com

MEMORY UPGRADES – SIMMS

integral



Before purchasing these products please check you are ordering the correct item with the PC manufacturer, manual or our **Pre-Sales Technical Support Team on 08701 66 44 44.** Returns will only be considered if the product is faulty or damaged upon receipt.

When ordering EDO memory, make sure your motherboard is EDO compatible.

To check compatibility use the on-line Integral configurator at www.action.com

9-BIT/30-PIN SIMM UPGRADES

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
4MB SIMM 9 chip 60ns	92-92-77	22.25	24.95	24.20	23.48
16MB SIMM 9 chip 60ns	69-89-17	45.49	50.99	49.46	47.98
4MB SIMM 3 chip 60ns	76-81-60	16.49	18.95	18.38	17.83

32-BIT/72-PIN SIMM UPGRADES

8MB SIMM 32-bit/72-pin without parity 60ns	76-82-25	19.49	21.95	21.29	20.65
16MB SIMM 32-bit/72-pin without parity 60ns	76-82-32	34.49	38.95	37.78	36.65
32MB SIMM 32-bit/72-pin without parity 60ns	78-20-36	70.49	78.95	76.58	74.28
64MB SIMM 32-bit/72-pin without parity 60ns	69-84-05	106.49	◗	115.95	112.47
128MB SIMM 32-bit/72-pin without parity 60ns	55-40-75	205.49	◗	223.95	217.23

32-BIT/72-PIN SIMMS

8MB SIMM 36-bit/72-pin with parity 60ns	73-08-82	25.89	28.95	28.08	27.24
16MB SIMM 36-bit/72-pin with parity 60ns	73-08-99	41.49	46.95	45.54	44.18
32MB SIMM 36-bit/72-pin with parity 60ns	79-00-11	102.49	◗	105.99	104.93
64MB SIMM 36-bit/72-pin with parity 60ns	55-40-82	124.89	◗	135.95	131.87
128MB SIMM 36-bit/72-pin with parity 60ns	55-40-99	238.49	◗	259.95	252.15

32-BIT/72-PIN EDO SIMMS

8MB EDO SIMM 32-bit/72-pin without parity 60ns	80-71-62	16.89	18.95	18.38	17.83
16MB EDO SIMM 32-bit/72-pin without parity 60ns	80-71-79	38.49	42.95	41.66	40.41
32MB EDO SIMM 32-bit/72-pin without parity 60ns	96-97-63	71.29	79.95	77.55	75.22
64MB EDO SIMM 32-bit/72-pin without parity 60ns	55-41-54	107.49	◗	116.95	113.44
128MB EDO SIMM 32-bit/72-pin without parity 60ns	55-41-61	157.89	◗	171.95	166.79

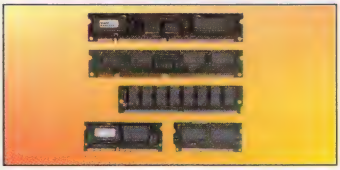
OTHER ITEMS

FOR TOOLS & TOOLKITS SEE PAGES 631–636
FOR PROCESSORS SEE PAGES 206–211

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DIMM MODULES

integral



Action offers an extensive range of unbranded DIMM modules for easy upgrading to meet today's growing demands for higher memory capacities. Check compatibility by cross-referencing your model with the catalogue number in the table on the page opposite, or use the on-line configurator at **www.action.com**.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
8MB SO-DIMM 72 pin 3.3v Upgrade	86-66-91	30.99	34.95	33.90	32.88	✂
16MB SO-DIMM 72 pin 3.3v Upgrade	86-67-01	40.00	44.95	43.60	42.29	✂
16MB DIMM 144PIN 3.3v EDO Upgrade	86-67-25	27.49	30.95	30.02	29.12	
32MB DIMM 144PIN 3.3v EDO Upgrade	86-67-32	51.49	57.95	56.21	54.53	
64MB DIMM 144PIN 3.3v EDO Upgrade	62-93-33	99.00	➧	107.95	104.71	✂
16MB DIMM 144 pin 3.3v Synchronous Upgrade	89-80-09	28.49	31.95	30.99	30.06	
32MB DIMM 144 pin 3.3v Synchronous Upgrade	89-80-16	31.99	35.95	34.87	33.83	✂
64MB 144 pin 3.3v Synchronous DIMM Upgrade	89-80-23	58.49	65.95	63.97	62.05	
64MB DIMM 144PIN 3.3v Synchronous Upgrade (8 × 8)	62-93-40	58.49	65.95	63.97	62.05	✂
16MB DIMM 168 pin 3.3v EDO buffered Upgrade	86-67-49	35.49	39.95	38.75	37.59	✂
32MB DIMM 168 pin 3.3v EDO buffered Upgrade	86-67-56	70.49	78.95	76.58	74.28	✂
64MB DIMM 168 pin 3.3v EDO buffered Upgrade	86-67-63	109.99	➧	119.95	116.35	✂
128MB DIMM 168 pin 3.3v EDO buffered Upgrade	62-34-70	194.99	➧	212.95	206.56	✂
16MB DIMM 168 pin 3.3v ECC EDO unbuffered Upgrade	86-67-70	26.49	29.95	29.05	28.18	✂
32MB DIMM 168 pin 3.3v ECC EDO unbuffered Upgrade	86-67-87	78.49	87.95	85.31	82.75	
64MB DIMM 168 pin 3.3v ECC EDO unbuffered Upgrade	86-67-94	109.49	➧	118.95	115.38	✂
128MB DIMM 168 pin 3.3v ECC EDO unbuffered Upgrade	62-36-38	220.39	➧	239.95	232.75	
16MB DIMM 168 pin Synchronous unbuffered Upgrade	86-68-04	29.49	32.95	31.96	31.00	
32MB DIMM 168 pin Synchronous unbuffered Upgrade	86-68-11	59.49	66.95	64.94	62.99	✂
64MB DIMM 168 pin Synchronous unbuffered Upgrade	86-68-28	57.49	64.95	63.00	61.11	✂
128MB DIMM 168 pin Synchronous unbuffered Upgrade	62-36-52	100.99	➧	109.95	106.65	✂
32MB DIMM Synchronous PC100 168 pin 3.3v Upgrade	55-47-14	28.49	31.95	30.99	30.06	✂
64MB DIMM Synchronous PC100 168 pin 3.3v Upgrade	55-47-21	51.49	57.95	56.21	54.53	✂
128MB DIMM Synchronous PC100 168 pin 3.3v Upgrade	55-47-38	113.49	➧	123.95	120.23	✂
64MB DIMM Synchronous PC133 168pin Upgrade	69-70-24	94.49	➧	102.95	99.86	
128MB DIMM Synchronous PC133 168pin Upgrade	69-22-85	186.49	➧	202.95	196.86	
256MB DIMM Synchronous PC133 168pin Upgrade	69-49-51	381.00	➧	414.95	402.50	
8MB DIMM 168 pin 5v Fastpage Upgrade	89-80-47	38.00	42.95	41.66	40.41	
8MB DIMM 168 pin 5v Fastpage Upgrade	89-80-47	38.00	42.95	41.66	40.41	
16MB DIMM 168 pin 5v Fastpage Upgrade	89-80-54	39.99	44.95	43.60	42.29	✂
32MB DIMM 168 pin 5v Fastpage Upgrade	89-80-61	66.49	74.95	72.70	70.52	
64MB DIMM 168 pin 5v Fastpage Upgrade	89-80-78	131.99	➧	143.95	139.63	✂

OTHER ITEMS

FOR PCs & ACCESSORIES SEE PAGES 67–79

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

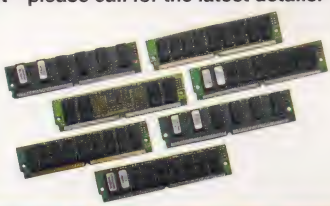
DIMM MODULES – COMPATIBILITY CHART

integral

Model	Compatible with
Dec Hinote VP510-575*, Ultra C543/450, CT450/475	86-66-84
Dell Latitude XP450C, 450CX, 475C, 4100CX, XPi P75D, P90D, P90T, P120D, P120ST, P133ST	86-66-91 86-67-01
IBM Thinkpad 701C/CS	
IBM Thinkpad 365, 380, 560, 760	
Acernote NUV0V0 97, 972, Light, 382, 383, 384 and 370 series	86-67-18
AST Ascentia A & M series	86-67-25
Fujitsu Lifebook 530T, 555T, 600, P133, 270Dx, 780Tx; Montego, Monte Carlo	86-67-32
Compaq Armada 1130, 1500	
Compaq Armada 1510, 1520, 1520D, 1550T, 7710, 7730, 7750, 7300, SB 200/233MMX	62-93-33 86-67-18 86-67-25 86-67-32
Olivetti Echos Pro 133D, 133E, 150X, 166XM, Xtrema series	
Panasonic CF-25-65	
Texas Inst. Travelmate 7000 series Extensa 391, 392, 393, 600, 650 & 9000 series'	86-67-18 86-67-25 86-67-32
Samsung Sense 500	
AST Bravo MS 5/166, 5/200, 6300 5/200M; LC 5166/M, 5200/M	86-68-28 62-36-52
AST Bravo EL/166	86-68-04 86-68-11
Apricot LS 100, 500, FT 600	86-68-28
Compaq Presario 1210, 1610	89-80-09
Fujitsu Lifebook 690TX, 990TX	
Siemens Scenic Mobile 510/710/800	89-80-16
Texas Inst. Travelmate 310, 7300, Extensa 500, 710	89-80-23
Compaq Proliant 1500 6/200, 2500 6/200H, 6/200N	86-67-56 86-67-63 62-34-70
Compaq Proliant 800 6/180, 6/200	86-67-70 86-67-87 62-36-38 86-67-94
Intel BX Chipset Motherboard	55-47-14 55-47-21 55-47-38

Model	Compatible with
Compaq Deskpro 2000 & 4000: 5/166, 5/200, 5/233MMX; EP/EN series (333MHz or lower)	86-68-28 62-36-52
Compaq Presario 4504, 4508, 4528, 4808, 4814	86-68-04 86-68-11
Fujitsu ErgoPro x365/x565 (350MHz only) e365 (300, 333MHz only)	86-68-11 86-68-28
Compaq DeskPro EP/EN series (350MHz & 400MHz+) Prosignia 330 PIII **HP** Brio series Vectra VEi7/VEi8 **Siemens** 320, 361 series **Apple Mac** G4 350MHz + **Fujitsu** ErgoPro x365/565 (PII 400, 450MHz only) **Apricot** FT 1400	55-47-14 55-47-21 55-47-38
Apricot LS 500 series	86-68-04 86-68-11 86-68-28
Siemens Scenic Edition	86-68-04
Scenic Edition/Pro	86-68-11 86-68-28 62-36-52
Dec Venturis FX-2 5166, 5166M, 5200M	
Celebris FX-2 5166, 5166M, 5200M	86-68-04 86-68-11 86-68-28
IBM PC300GL	
Apple Power PC G3 series	
Apple PowerMac 7200, 7500, 8500, 9500	89-80-47 89-80-54 89-80-61 89-80-78
Compaq Armada A1700/ 6233t/6266t/6300t; A3500/6266t/6300t; 7800 7400 A74 6266t/6300t; A78 6266t/6300t; 6500 A65 6300t 1750 series	89-80-09 89-80-16 89-80-23 62-93-40
IBM Thinkpad 600, 770e/770x	
Samsung VM600, GT 6360xl	
Acer 505/510 series	
Fujitsu Lifebook B,C,E,S,X Series	
Sony Vaio-PCG-700 to 800 series	
Texas Instruments Travelmate 505/510, 340, 740	

New modules are constantly coming onto the market – please call for the latest details.



Selecting the correct RAM for your system from the myriad choices available is a daunting task. To assist you, we have created a simple chart so that you can cross reference your make and model of PC and see which catalogue numbers are compatible with your system from the range of unbranded DIMM modules on the page opposite.

OTHER ITEMS

FOR MOTHERBOARDS SEE PAGES 212, 213

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
»Save £££'s!
»Check live stock
»Track order status

PROCESSOR & MOTHERBOARD GUIDE



As software applications become increasingly demanding on today's PCs, it is important to keep your systems up to date with the latest processor and graphic hardware technology.
The easiest and most cost effective way to do this is to replace just the core components, such as the CPU (Central Processing Unit) and motherboard, therefore increasing the speed of your PC without having to buy a whole new unit. Similarly, a graphics accelerator card allows your PC to run complex graphics utilities at greater speeds and play the latest entertainment, multimedia and video products.



PROCESSORS

The single most important component that contributes to a computer's performance is the processor or CPU (Central Processing Unit).
It is the core circuitry that responds to and processes the instructions that run a computer. Therefore the faster your processor, the better your PC's performance.
The current standard is the Pentium III processors from Intel. Look out though for the **new** Coppermine processors, with slightly less expensive, but still of a high quality, solutions coming from AMD.
For a range of Intel Celeron and Pentium processors see page 206.
For AMD processors including the new Athlon see page 207.



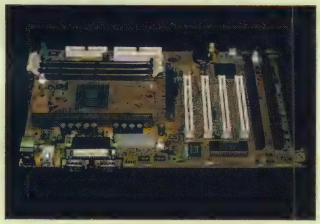
PROCESSOR UPGRADES

Processor upgrades are designed to enhance the performance of 486 and Pentium based PCs to allow you to keep pace with today's computer technology.
The Evergreen upgrade featured on page 209 is the popular low cost solution allowing you to upgrade from a 486 to a maximum of 133MHz, plus the MXPro and Spectra processors upgrade Pentium systems to a maximum of 400MHz and enables MMX software.
If you are looking for a powerful solution for 486 and low level Pentium PCs, try Kingston Technology's Turbochip on page 208.



GRAPHICS CARDS

While processors and memory provide the speed and performance of PCs, they require additional hardware to display the highest quality graphics. Both home and business computers can benefit from these cards which add visual flair to presentations, home entertainment software and can display complex 3D environments without compromising the refresh rate. They also provide support for video and in some cases, DVD, transforming your PC into a true multimedia system.
Graphics cards from Elsa, Matrox, ATi, 3dfx, Diamond and Creative Labs can be found on pages 231–236.



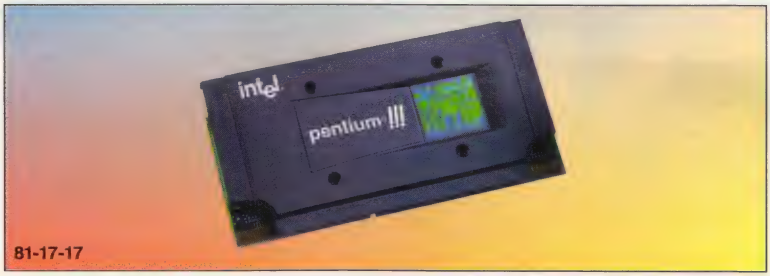
MOTHERBOARDS

The Motherboard holds the most essential components of a computer: the CPU, RAM and ROM memory as well as the expansion slots for additional hardware. Included within this section are a selection of Motherboards from quality manufacturers such as GigaByte and Oyster (page 210), MSI (page 211) and Abit MPower (page 212).
Across this range of high-quality, high-performance products are Motherboards that feature the new Socket 370 – compatible with the latest Intel Celeron PPGA processors.

OTHER ITEMS
FOR NOTEBOOK PCs & ACCESSORIES SEE PAGES 67–69
FOR DESKTOP PCs SEE PAGE 136–166

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PROCESSORS — INTEL



81-17-17

Intel Pentium III Coppermine
Building on the Intel P6 microarchitecture, the new Pentium III processor includes a number of features for the next generation of business computing, including:

- 70 new instructions that enable rich, natural data types that improve comprehension, communication and collaboration.
- Fast processor clock speeds of up to 866MHz.
- 133MHz and 100MHz system bus supported (depending on chipset).
- Advanced Transfer Cache featuring 256K on-die, full speed Level 2 cache.
- Dynamic Execution.
- MMX™ technology.
- Processor Serial Number feature to enhance manageability and asset tracking.

A more cost effective Intel solution comes in the form of the **Celeron Plastic Pin Grid Array (PPGA)** processor. The Celeron PPGA, 500 to 600MHz CPUs utilise the multi-transactional P6 architecture with 128KB of level 2 cache providing increased bandwidth and performance.
To run the Celeron PPGA, you **must** have a Socket 370 compatible motherboard, which can be found on pages 211, 212.
Speeds up to 866MHz available please call for details.

FAN AND HEATSINK INCLUDED

	DESCRIPTION	SPEED	SOCKET TYPE	BUS SPEED	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	Celeron PPGA Processor	500MHz	Socket 370	66MHz	77-82-94	59.21	61.95	61.33	60.72
	Celeron PPGA Processor	533MHz	Socket 370	66MHz	94-31-99	74.99	79.99	79.19	78.40
NEW	Celeron FCPGA Processor	566MHz	Socket 370	66MHz	69-17-44	82.81	85.99	85.13	84.28
NEW	Celeron FCPGA Processor	600MHz	Socket 370	66MHz	69-70-46	111.82	➧	114.95	113.80
	Pentium III C/mine 100FSB	600MHz	FC Socket 370	100MHz	81-17-17	159.99	➧	169.99	168.29
✂	Pentium III C/mine 133FSB	600MHz	FC Socket 370	133MHz	81-70-21	149.99	➧	159.99	158.39
✂	Pentium III C/mine 100FSB	650MHz	FC Socket 370	100MHz	81-22-63	189.99	➧	199.99	197.99
✂	Pentium III C/mine 133FSB	667MHz	FC Socket 370	133MHz	81-49-47	199.99	➧	209.99	207.89
✂	Pentium III C/mine 100FSB	700MHz	FC Socket 370	100MHz	81-12-46	255.99	➧	265.99	263.33
✂	Pentium III C/mine 100FSB	600MHz	Slot 1	100MHz	45-98-09	159.99	➧	165.99	164.33
✂	Pentium III C/mine 133FSB	500MHz	Slot 1	133MHz	12-21-42	159.99	➧	165.99	164.33
✂	Pentium III C/mine 100FSB	650MHz	Slot 1	100MHz	94-73-89	194.99	➧	199.99	197.99
✂	Pentium III C/mine 133FSB	667MHz	Slot 1	133MHz	40-78-12	204.50	➧	209.99	207.89
✂	Pentium III C/mine 100FSB	700MHz	Slot 1	100MHz	74-24-38	249.99	➧	259.99	257.39
✂	Pentium III C/mine 133FSB	733MHz	Slot 1	133MHz	58-04-39	272.99	➧	279.99	277.19
✂	Pentium III C/mine 100FSB	800MHz	Slot 1	100MHz	69-38-96	439.99	➧	455.99	451.43
✂	Pentium III C/mine 133FSB	800MHz	Slot 1	133MHz	69-27-73	439.99	➧	459.99	455.39

OTHER ITEMS
FOR MOTHERBOARDS SEE PAGES 212–213

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
›› Save £££'s!
›› Check live stock
›› Track order status

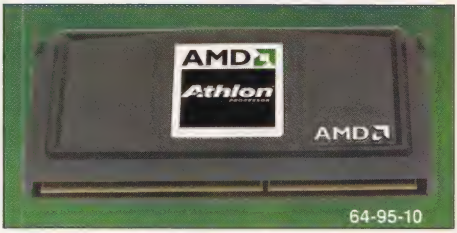
PROCESSORS

AMD

Introducing the seventh-generation of x86 microarchitecture, the **AMD Athlon™** processor family is designed to power the next generation in x86 computing platforms. It meets the computation-intensive requirements of cutting-edge software applications running on high-end desktop systems, workstation and servers.
Business users who work with image processing, digital content creation, CAD/CAE, scientific applications and other computationally-demanding software will benefit from the superior processing power of AMD Athlon processor-based systems, as will computing enthusiasts who want the highest performance and clock speeds to run the latest 3D gaming, entertainment and Internet software.

The AMD Athlon processor significantly out performs previous-generation x86 processors, including Intel's Pentium® III product family, and delivers the highest integer, floating point, and 3D multimedia performance available for x86 platforms, as measured by industry-standard benchmarks. Compatible with x86 versions of Windows, including Windows 98 and Windows NT® as well as other leading operating sytems, such as Unix, Linux, OS/2 Warp, and Novell NetWare.

- The industry's first nine-issue super pipelined, superscalar x86 processor microarchitecture designed for high clock frequencies.
- Enhanced 3DNow!™ technology for leading-edge 3D performance.
- 200MHz AMD Athlon system bus (scalable beyond 400MHz).
- Integrated 128KB L1 cache and a programmable, high-speed backside L2 cache interface.



IMPORTANT: You must use an AMD approved heatsink & fan when installing an AMD Athlon processor. Failure to use an AMD approved heatsink & fan will invalidate your warranty on your processor and motherboard. The heatsink & fan listed on this page are approved by AMD.
You also need a compatible motherboard to install an Athlon processor. See page 240 for the Athlon compatible MS-6167 motherboard from MSI.

New AMD Duron processors are specifically designed to provide an optimized solution for the most demanding value conscious business and home users. Designed to prolong the life of the buyer's investment by accommodating new and more sophisticated applications. The AMD Duron processor is derived from the AMD Athlon processor core and features full-speed, on-chip L2 cache memory, a 200MHz front side system bus and enhanced 3DNow technology.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Athlon 650MHz processor K7-650 Slot A	64-95-10	119.99	▶	125.99	124.73	
Athlon 700MHz processor K7-700 Slot A	64-18-37	139.99	▶	145.99	144.53	✂
Athlon 750MHz processor K7-750 Slot A	64-18-63	179.99	▶	185.99	184.13	✂
Athlon 800MHz processor K7-800 Slot A	64-70-64	239.99	▶	245.99	243.53	✂
Athlon 850MHz processor K7-850 Slot A	69-53-77	319.99	▶	329.99	326.69	NEW
Athlon 900MHz processor K7-900 Slot A	69-18-07	435.99	▶	449.00	444.51	NEW
Athlon 950MHz processor K7-950 Slot A	69-31-35	534.99	▶	549.99	544.49	NEW
Athlon 1Ghz processor K7-1000 Slot A	69-53-92	605.99	▶	625.00	618.75	NEW
Heatsink & Fan for K7 Athlon up to 850MHz	64-70-45	10.68	11.99	11.63	11.28	
Heatsink & Fan for K7 Athlon 900–1GHz	69-08-57	11.57	12.99	12.60	12.22	NEW
Duron 600MHz processor Slot A	69-18-13	CHECK ONLINE	▶	▶	FREE Call	NEW
Duron 650MHz processor Slot A	69-31-40	79.99	82.99	82.16	81.34	NEW
Duron 700MHz processor Slot A	69-53-96	112.99	▶	115.99	114.83	NEW

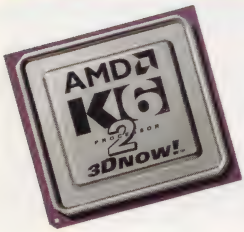
OTHER ITEMS

FOR MOTHERBOARDS SEE PAGE 213
FOR GUIDE TO MEMORY SEE PAGE 190

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PROCESSORS

AMD



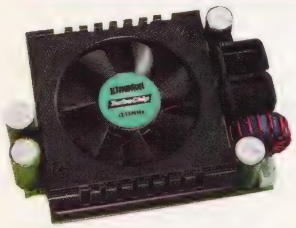
With 3DNow! Technology, the **AMD-K6-2 processor** delivers cutting edge performance and a powerful 3D experience for Windows computing. Working hand-in-hand with today's leading 3D graphics accelerators to maximise 3D processing power and reach a new level of realism in personal computing.

The combination of 3DNow! Technology enhancements and superscalar MMX capability of the K6-2 processor will allow you to fly through 3D web environments with smooth imagery and realistic sound.
From movie quality DVD to the surround sound of exciting new PC games, the AMD-K6-2 processor is optimised for DirectX6 and OpenGL libraries.

	DESCRIPTION	SPEED	SOCKET	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
✂	K6-2-500	500MHz	Socket 7	64-54-25	35.99	37.99	37.61	37.23
✂	K6-2-533	533MHz	Socket 7	64-95-34	42.99	45.99	45.53	45.07
NEW	K6-2-550	550MHz	Socket 7	69-94-99	54.99	57.99	57.41	56.84
	HEATSINK & FANS	**FOR USE WITH**		**CAT NO**				
	Cooler Master DP5-5E11	K6-2 to 533MHz		64-17-78	8.58	9.99	9.59	9.21
NEW	Cooler Master DP5-5F51	K6-2 to 600MHz		69-31-36	9.43	10.99	10.55	10.13
	Cooler Master DP5-5025	K6-III to 650MHz		64-31-01	9.43	10.99	10.55	10.13
	Cooler Master TS2-5ED3-01	Slot 1 Intel PIII to 600MHz		64-70-30	10.68	11.99	11.63	11.28

PROCESSOR UPGRADES

Kingston TECHNOLOGY



Want to upgrade your 486 or Pentium PC but don't want the hassle of buying a new motherboard and processor? Kingston Technology's TurboChip could be the ideal alternative. The TurboChip slots directly into your existing motherboard, making installation simple and instantly providing you with a performance boost of up to 280%.

TurboChip 233 features:
- Chip for chip replacement with support for Socket 5 and 7 motherboards.
- 32KB of Level 1 cache.
- Supports MMX instructions.

TurboChip 366 features:
- Increases system processing performance 280%.
- 64KB internal cache.

All versions of TurboChip include an on-board voltage regulator and cooling fan.

TurboChip 133 features:
- 16KB internal cache.
- Built in math co-processor.

	DESCRIPTION	SPEED	FOR USE WITH	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	Kingston TurboChip 133 Processor Upgrade	133MHz	486DX2, DX, SX2, SX	98-49-06	62.08	64.95	64.30	63.66
	Kingston TurboChip 233 Processor Upgrade	233MHz	Pentium 75/90/100/120/133 150 or 166MHz	62-50-21	78.36	87.95	85.31	82.75
✂	Kingston TurboChip 366 Processor Upgrade	366MHz	Pentium 166MHz and above	69-30-93	86.01	89.99	89.09	88.20
	Kingston TurboChip 400	400MHz	Pentium 166MHz and above AMD-K5, AMO-K6	69-17-77	106.19	◗	109.99	108.89

OTHER ITEMS
FOR MOTHERBOARDS SEE PAGES 212–213
FOR MEMORY UPGRADES SEE PAGES 191–192

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PROCESSOR UPGRADES

EVERGREEN technologies

The **Evergreen 586 processor upgrade** is designed to enhance the performance of the entire range of 486-based PCs. Upgrade from 486SX, DX or DX2 systems up to a 133MHz 586 system.
The Evergreen 586 supports 168 and 237-pin socket styles and can be installed in the CPU or Overdrive socket.

- Simple 5 minute installation.
- Upgrades a 486SX or DX to a 586 system.
- Internal clock tripling and quadrupling.
- 16K of level one (write-back) cache.
- Floating point math unit (FPU) delivers faster math calculation.
- Increases Windows performance by 200%.
- Microsoft Certified processor.

The **Evergreen MxPro™** processor upgrade boosts 75MHz and higher Pentium® systems and runs MMX enabled software. For a fraction of the cost of a new MMX PC, the MxPro extends the life of older Pentium systems.

Spectra 233, 333, 400 – Revolutionary Upgrades for a Pentium 75 or Higher!. The Evergreen Spectra product line upgrades 75MHz and higher speed Pentium PCs with revolutionary 3DNow!™ instructions and Microsoft's new DirectX delivering Windows® 95 and 98 users sharper 3D graphics, enhanced video playback and life-like sound.



69-22-86

The First Evergreen Pentium II® Upgrade Solution! The **Evergreen Performa 500** will boost your Pentium II into next generation performance! Adapts the latest Celeron Processors for Slot 1 motherboards. Dramatically improves your software's overall performance and provides the power to run Microsoft® Windows® 2000.

The FireLINE™ HotDrive provides 20GB of high speed portable data storage for your PC. It requires no internal installation and simply plugs directly into an available FireWire® port. by incorporating state of the art and data transmission technology it represents the premier portable storage solution in today's market.

Original CPU	New Clock Speed (Tripler)	New Clock Speed (Quadrupler)
486/25 or DX2/50MHz	586/75MHz with 16K cache	586/100MHz with 16K cache
486/33 or DX2/66MHz	586/100MHz with 16K cache	586/133MHz with 16K cache
486/40MHz	586/120MHz with 16K cache	—
P75 – 166MHz (MxPro 200 and 233)	PC200 and 233MHz MMX with 64K cache (not all PC systems support the full 200MHz)	—
P75 and higher (Spectra 233, 333 & 400)	P233, P333 or P400MHz MMX with 3D-Now! and 64K cache	—

LIFETIME WARRANTY

DESCRIPTION	FOR USE WITH	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Evergreen 586 Processor U/G	486/25, 486/33, 486/40MHz, 486DX2/50, 486DX2/66MHz	97-32-54	45.99	48.95	48.46	47.98	
MXPro 200 Processor U/G	Pentium 75/90/100/120/133/150 or 166MHz	68-63-52	48.99	52.99	52.46	51.94	
Spectra 233 Processor U/G	As Above	64-53-44	54.99	56.99	56.42	55.86	✂
Spectra 333 Processor U/G	Pentium 75/90/100/120/150 or 166MHz	64-26-88	84.99	88.99	88.10	87.22	✂
Spectra 400 Processor U/G	Pentium 75/90/100/120/133/150/166/200 or 233MHz	64-70-48	112.99	➧	115.99	114.83	✂
Performa 500 Processor U/G	Pentium II/Celeron	69-22-86	149.99	➧	159.99	158.39	
Evergreen FireLINE™ HotDrive external IEEE1394, 20GB HD	–	69-08-56	268.99	➧	275.99	273.23	NEW

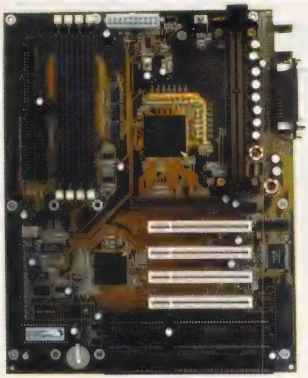
*Cat No 69-08-56 includes cable & one year warranty.

OTHER ITEMS

FOR A GUIDE TO MEMORY UPGRADES SEE PAGE 190
FOR PC TOOLS SEE PAGES 631–637

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MOTHERBOARDS — GigaByte



From **GigaByte** comes motherboards with support for Intel, AMD, IBM/Cyrix and IDT 586 processors. Utilising the ALi Aladdin V AGPset, the fifth generation 586 chipset from AcerLabs, it provides a complete, low-cost solution with the most up-to-date features and architecture and includes the higher CPU bus frequency (up to 100MHz) interface for all socket 7 compatible processors, PBSRAM and memory Cache L2 controller to reduce cost and enhance performance.

GigaByte's **BX motherboards** incorporate the latest 440BX AGPset that enables the true power of AGP (Accelerated Graphics Port). The Intel 440BX AGPset is the first chipset to deliver 100MHz system level bandwidth to support Intel Pentium II processors at 350 to 500MHz and with the new GA-BX2000, Pentium III processors up to 500MHz are supported.

Technical specifications on the motherboards not listed in the specification table below are available on www.action.com

Model	GA-BX2000+	GA-5A Ver.5.2	GA-6BA
Processor	Not Included		
Processor Support	Intel Pentium II/III and Celeron 233-550MHz	Intel Pentium MMX/Overdrive 90-266MHz AMD 5K86, K6 233MHz, K6-2 266 – 300MHz Cyrix/IBM 6x86, 686L/MX/MII P150+ – P300+	Pentium II 350–500MHz (100MHz bus) 233–333MHz (66MHz bus)
Socket type	Slot 1	Socket 7	Slot 1
Form factor	ATX		Baby AT
Memory	EDO or SDRAM		
Max memory	1GB	768MB	
Memory slot support	4 DIMM	3 DIMM	4 DIMM
Level 2 cache	On processor	512KB PB SRAM	On processor
PCI IDE	2 × PCI UDMA ports (up to 4 IDE devices)		2 × PCI UDMA/33 ports (up to 4 ATAPI devices)
Chipset	Intel 440BX AGPset	ALi Aladdin V	Intel 440BX AGPset
BIOS type	Award with Dual-BIOS	Award PCI	
Dedicated Slots	5 × PCI, 2 × ISA, 1 × AGP		4 × PCI, 2 × ISA, 1 × AGP
Ports	1 × Parallel, 2 × serial, floppy, 2 × USB (optional with GA-6BA), PS/2 keyboard/mouse		
USB ready	Yes	Optional	Yes
Warranty	12 months		

FOR LATEST MODELS VISIT www.action.com

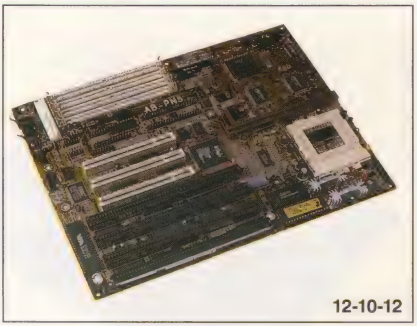
	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	GA-5AX Ver 5.2 ATX Intel/AMD/Cyrix	64-98-34	57.34	59.99	59.39	58.80
NEW	GA-6VX7+ ATX Socket 370, via Apollo Pro AGP Set	69-70-45	63.07	65.99	65.33	64.68
NEW	GA-6BX7 ATX Socket 370, Intel 440BX chipset	69-23-04	76.46	79.99	79.19	78.40
NEW	GA-BX2000+ ATX Slot 1 PII/III/Celeron, 440BX chipset	69-22-97	88.99	92.99	92.06	91.14
	GA-6BA Baby AT Pentium II 233-500MHz	62-05-38	73.18	75.99	75.23	74.48
NEW	GA-6WMMC7 Micro ATX, Socket 370, 810e AGP chipset	69-31-29	72.99	75.99	75.23	74.48
NEW	GA-6WXM7(-E) ATX, Socket 370, 810e chipset	69-53-86	86.01	89.99	89.09	88.20
NEW	GA-6WMM(-E) Micro ATX, Slot 1, PII/PIII/Celeron, 810 chipset	69-17-43	82.19	85.99	85.13	84.28

OTHER ITEMS
FOR PROCESSORS SEE PAGES 210–211
FOR GRAPHICS CARDS SEE PAGES 231–235
FOR APPLE SECTION SEE PAGES 126–132

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MOTHERBOARDS — MSI MPOWER

MSI's, latest range of motherboards have an excellent complement of safety and performance enhancing features. 'D-LED' is a set of four built in LEDs that display one of 16 combinations of green and red lights that tells you of a hardware failure. Allowing quick and simple installation is MSI's 'CPU Plug & Play III' which will auto-detect CPU type when you install it. It will also support a front side bus of up to 133MHz and both 66 and 100MHz systems bus speeds. Plus, it provides voltage settings for up to 704 CPU configurations.
MSI motherboards come with the 'SafeBIOS 810' system which guarantees 100% successful boot up, protects against viruses and its auto-recovery feature will help resolve problems as they occur.
They also come with 'Top Tech III' to detect component temperature with multiple sensors including CPU, system and graphics.



12-10-12

MSI is the first motherboard manufacturer to include the PTI slot on an 810 chipset-based motherboard. PTI cards allow users to operate Panel Link LCD displays with digital connection to get higher, brighter resolutions and consume less electricity. PTI's TV-out feature also allows you to connect your PC to your television directly, **69-30-92 MS-5187 motherboard only.**

The new **MS-6191 Motherboard** is compatible with new AMD Athlon processors featured on page 207. **MPower** again provides low cost, high specification solutions now with a larger range of processor support and offering the latest motherboard features such as EDO SDRAM compatibility, AGP technology and the UltraDMA-33 interface mode.

Model	MPower Super Socket 7	MS-5169	MS-6163	MS-5187	MS-6191
Processor Support	AMD 100MHz	Intel Pentium MMX, AMD K6/K6-2/K6-III, Cyrix, M2, IBM 6×86 up to 550MHz	Intel Pentium II/III/ Celeron up to 550MHz	K6/2 K613	AMD Athlon
Socket Type	Super Socket 7	Socket 7	Slot 1	Socket 7	Slot 1
Form Factor	AT	ATX			Micro ATX
Memory	EDO SDRAM	ECC SDRAM			
Memory Slot Support	2 SIMM, 2 DIMM	3 DIMM		2 DIMM	3 DIMM
Maximum Memory	—	768MB			
Chipset	VIA MVP3	ALi Aladdin V	Intel 440BX	VIA MUP4	AMD
Dedicated slots	3×PCI, 3×ISA	3×ISA, 4×PCI, 1×AGP	5×PCI, 2×ISA, 1×AGP	3×PCI, 1×PCI/ISA, ISA	3×PCI, 1×AGP
Ports	—	2×USB, 2×serial, parallel, PS/2 mouse/KB, floppy		2×USB, 2×serial, parallel, IrDA, floppy	2×USB, 2×serial, 2×PS/2, parallel

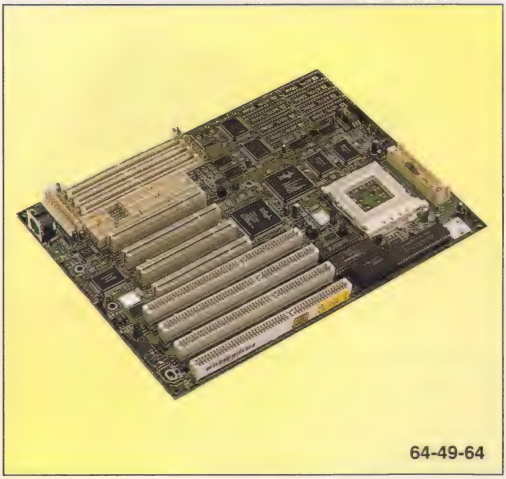
DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
MPower Super Socket 7 (bare board)	64-77-96	51.99	54.95	54.40	53.86	
MSI MS-5169 (inc. LAN Wake Up) for AMD K6/2	12-10-12	49.99	52.95	52.42	51.90	
MSI MS-6163	36-99-40	64.99	67.99	67.31	66.64	
MSI MS-5187 (sound and graphics on board) for AMD K6/2	69-30-92	62.99	65.99	65.33	64.68	
MSI MS-6191 (sound on board) for AMD Athlon	69-53-45	94.99	99.99	98.99	98.00	
MSI MS-6195 (6×PCI, 1×ISA) ATX Form Factor for AMD	69-39-13	91.75	95.99	95.03	94.08	NEW

OTHER ITEMS

FOR GUIDE TO MEMORY UPGRADES SEE PAGE 190
FOR PROCESSORS SEE PAGES 208–211

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MOTHERBOARDS — TYAN — AOpen



64-49-64

Designed for high performance Desktop PC systems, these **Tyan Trinity and Tomcat** Motherboards boast a high level of system board flexibility due to their processor support. With a system bus speed of up to 133MHz, these boards are primed for supporting future processors and faster memory.

Aopen Motherboards are tested to ensure that each model meets the highest standards of compatibility and performance. To guarantee a tightly integrated system, combine an Aopen motherboard with any one of their barebone PC cases (see page 213) and your favourite peripherals.

SPECIAL FEATURES:

- Jumper-less design.
- AC Power On Auto Recovery.
- Ultra DMA 33/66 interface.
- Adjustable CPU voltage.
- BIOS Virus Protection Function.
- Support Audio/Modem Riser (AMR) slot.

	Tyan Trinity				Aopen			
Model	**S1598**	**S2420**	**K7**	**400 Combo**	**AK72**	**AK64**	**AX6CM**	**AX6BC**
Processor Support	Pentium/ MMX/AMD/ Cyrix/IBM/ IDT	PII/III	AMD Athlon	Cel/PII/III	AMD Athlon (K7)	Cel/PII/III	PII/III	Cel/II/III
Socket Type	Socket 7	Socket 370	Slot A	Slot 1 & Socket 370	Slot 1			
Form Factor	ATX	Flex ATX	ATX					
Cache	1MB	4MB (display)	On CPU					
Chipset	VIA MVP3	Intel 810e	VIA KX 133	VIA Apollo Pro	VIA Apollo KX133	VIA Apollo Pro	Intel 820 + MTH	Intel 440BX AGP
Dedicated Slots	5×PCI, 2×ISA, 1×AGP	2×PCI	6×PCI, 1×ISA, 4×AGP	6×PCI, 1×AGP	1×ISA, 5×PCI, 1×AGP, 1×AMR	1×ISA, 4×PCI, 1×AGP, 1×AMR	1×AGP, 1×AMR, 5×PCI	2×ISA, 5×PCI, 1×AGP

SEE PAGES 23–39 FOR TECHNICAL SERVICES

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	Tyan Trinity S1598 (bareboard) ATX	69-49-64	69.99	72.99	72.26	71.54
NEW	Tyan Tomcat S2420 (bareboard) Flex ATX (ATX+Micro ATX)	69-12-61	112.99	◗	115.99	114.83
NEW	Tyan Trinity K7 (bareboard) ATX (for AMD Athlon)	69-08-54	79.99	85.99	85.13	84.28
	Tyan Trinity 400 Combo (bareboard) ATX	69-17-73	75.99	79.99	79.19	78.40
NEW	Aopen AK72, VIA Apollo for AMD Athlon K7	69-39-10	85.99	89.99	89.09	88.20
NEW	Aopen AK64, VIA Apollo, ATX for Intel PII/PIII/Cel slot 1	69-27-85	CHECK ONLINE	◗	◗	FREE Call
NEW	Aopen AX6CM, 820 chipset, ATX for Intel PII/PIII	69-36-92	CHECK ONLINE	◗	◗	FREE Call
NEW	Aopen AX6BC, 440BX, AGP set, ATX for Intel PII/PIII	69-98-42	65.99	69.99	69.29	68.60

OTHER ITEMS

FOR CELERON PGA PROCESSORS SEE PAGE 208
FOR PROCESSORS SEE PAGES 208–211

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

COMPUTER CASES

The Macase Galaxy ATX range of universal PC cabinets are the perfect housing facility for today's home and business computers.
Each unit has a high-tech design for optimum performance, houses all ATX motherboards and either meets or exceeds EMI and EMS electromagnetic requirements.



55-98-74 69-68-25 62-53-75 69-62-18

FEATURES:

- 1.22mm metal thickness keeps electronic emissions from causing interference to system components and outside peripherals.
- Ventilation openings in outer-casing – front/rear panels.
- Clean-air filter into cabinet front panel keeps completed system free of airborne particles and dust – filter is removable for cleaning at any time.
- Optional second cooling fans (cat no. 69-17-40) fitted to the front of the chassis ensures cool air is distributed to the whole of the unit.

Model	ATX Micro Case	ATX Desktop	ATX Mini-Tower	ATX Full Tower
Drive bays	2×5¼", 2×3½"	3×5¼", 5×3½"	3×5¼", 3×3½"	4×5¼", 5×3½"
Expansion slots	4	7		
Dimensions (W×D×H) mm	178×381×368	454×480×162	240×420×380	190×455×620
Warranty	12 months			

AOpen barebone chassis feature precise mechanical construction and are ready for FCC system approval. These cases reflect AOpen's commitment to quality and offer resellers a way to build systems of superior quality.

69-17-72



AOpen HX08 Case

- Full Tower Case.
- ATX architecture.
- 13 Drive bays.

69-31-02



AOpen HX45 Case

- Mid Tower Case.
- ATX architecture.
- 6 Drive bays.

69-53-58



AOpen MT85 Case

- Mini Tower Case.
- Micro ATX architecture.
- 5 Drive bays.

Model	HX08	HX45	MT85
Drive bays	5×5¼", 1×3½"	3×3½", 3×5¼"	3×3½", 2×5¼"
Power supply	300W ATX	250W ATX	145W micro ATX
Dimensions (W×D×H) mm	420×198×590	420×199×414	356×180×356

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Macase ATX Micro Case	62-53-75	37.99	39.95	39.55	39.15	
Macase ATX Desktop Case	69-62-18	45.99	47.95	47.47	47.00	
Macase ATX Mini-Tower	69-62-25	42.99	44.95	44.50	44.06	
Macase ATX Full Tower Case	55-98-74	72.99	75.95	75.19	74.44	
Macase Secondary Cooling Fan	69-17-40	8.50	9.95	9.55	9.17	NEW
AOpen MT85 Minitower Case (Micro ATX)	69-53-58	29.99	35.99	34.91	33.86	
AOpen HX45 Mid-Tower Case (ATX/Baby AT/Micro ATX/ Full AT)	69-31-02	37.99	39.99	39.59	39.19	
AOpen HX08 Full Tower (ATX/Baby AT/Micro ATX/Full AT)	69-17-72	62.99	65.99	65.33	64.68	

OTHER ITEMS

FOR MOTHERBOARDS SEE PAGES 212–213
FOR PROCESSORS SEE PAGES 208–211
FOR GUIDE TO MEMORY SEE PAGE 190

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

Lower prices on-line at action.com

GUIDE TO STORAGE

At the heart of every computer is some form of main storage media, most commonly a hard disk, which contains the operating system, applications and data files. This essential device is required, in its base operation, to store long term saved material which remains in the system even when the computer is turned off, thus creating a safe and increasingly high capacity location to keep files and programmes that you will use and need again.

A hard disk drive consists of either one or a stack of circular disks with a magnetic coating, in which data and information are stored. Touching each side of the disks is a head attached to an actuator arm that reads and writes data as the disk sustains a constant revolution, much like a needle on a record player. On the disk itself, the data is divided into cylinders, tracks and sectors of which information is given a location so that it can be retrieved later.

A hard drive's specification revolves around these core aspects. The speed of the disk's revolution determines the speed of the transfer rate and is measured in **revolutions per minute (rpm)**, with the average being between 4,500 and 7,200rpm though drives are available which operate at 10,000rpm. The **average seek time** is the time it takes for the head to position itself on a randomly requested location, with the shorter time obviously being the better. The **Mean Time Between Failures (MTBF)** is also important to remember as it details the average total hours between a hard disk failure; 300,000 hours is a typical estimation.

THE INTERFACE

The interface you choose is entirely down to the set up of your current or proposed system.

The two current interfaces are **Enhanced Integrated Drive Electronics (EIDE)** and **Small Computer System Interface (SCSI)**. IDE is the cheaper and more widely compatible of the two because, as the name suggests, its drive controller is built into the logic board of the disk drive and most motherboards feature an EIDE compatible chipset. A SCSI hard drive, however, requires a separate SCSI controller and only more recent and high end motherboards will feature compatibility with the SCSI input, thus creating a more expensive start up cost.

Why, therefore, should anyone choose SCSI over EIDE? This goes back to what your set up consists of. If you are using multiple devices such as tape drives, CD-ROM drives and additional hard drives then SCSI would be the correct choice simply because it is built to cope with several devices. Up to 15 devices (on a Wide SCSI interface) can share the same system bus and retain a faster transfer rate while an EIDE drive can only share 4 on two separate channels with each peripheral having to take turns to use the bus. Furthermore, a SCSI drive is capable of much higher capacities, making it excellent for a system with several inputs, but impractical in a standard environment.

Another factor to take into account is the interface protocol. The standard protocol is **Programmed Input/Output (PIO)**. This protocol sends all data through the processor and therefore slows down its operation and limiting transfer rates to 8.3MB/ps in its highest mode. The alternative is **Ultra Direct Memory Access (UDMA)** which sends all data directly to the system memory and thus frees up the processor, creating faster transfer rates of up to 33MB/ps under UDMA-33 and placing little strain on the CPU. However, specific chipsets and leads are required to use this protocol.

CD-ROM or DVD-ROM

Now an essential component in any PC, the CD/DVD-ROM drive creates an input for the high capacity CD/DVD medium on which almost all modern software and games are supplied. In this section, we have a range of internal and external drives and disk changers and a choice of SCSI, IDE and EIDE interfaces.



OTHER ITEMS

FOR GUIDE TO DIGITAL CAMERAS SEE PAGE 329
FOR GUIDE TO PROJECTORS SEE PAGE 352

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

3.5" IDE/SCSI HARD DISK DRIVES

FUJITSU



Fijitsu offer a complete portfolio of high performance Hard Disk Drives to suit todays capacity demanding & performance intensive enterprise, desktop & mobile applications. Fujitsu's Hard Disk Drives incorporate the latest storage technology developments including GMS (Giant Magneto Resistive) heads & enhanced EPRML digital read channels and Internal Data Transfer Rates up to a blistering 45.0MB/sec.

Fijitsu's New 3.5" ATA-5 IDE Hard Drives, the very latest in desktop storage providing up to an incredible 20GB formatted storage capacity. These new value oriented drives offer an excellent storage solution for low cost PC and consumer electronics manufacturers, offering optimal performance, excellent reliability, low acoustics noise and competitive specifications. Performance features include Internal Data Transfer Rates up to a blistering 37.8MB/s, Access Times under 9.5ms and a class leading areal density of 7.8GB/in². Also a new unique top cover design that reduces sound levels to less than 30dBA making the drives ideal for home entertainment applications. Non-operating shock tolerance of 250G, enables these drives to offer peak performance and data protection capabilities.

Model	Fujitsu IDE Drives	Fujitsu AL6 SCSI Drives
Formatted Storage Capacity	10.2, 15.3 or 20.4GB	9.1, 18.2 or 36.6GB
Form Factor	3.5" × 1" high	
Seek Time (average) R/W	9.5/10.5 msec	7200=6.7/7.3ms or 10,000=4.7/5.2ms
Rotational Speed	5400RPM	7200 or 10,000rpm
Interface	ATA-5	U160 SCA-2 or 68-pin Wide
Data Buffer Size	512KB	
Data Transfer Rate	66.6MB/s UDMA mode 4	160MB/s (synchronous mode)
Dimensions	26.1 × 101.6 × 146mm	25.4 × 101.6 × 146mm

Fujitsu's AL6 series flagship range of SCSI hard disk drives are the drive of choice for the world's top OEMs, offering class leading performance coupled with industry leading reliability, they are the ideal product for integrators building PC servers, RAID boxes or A/V systems.

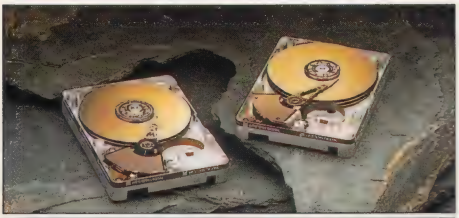
DESCRIPTION	CAPACITY	RPM	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
FIJITSU 3.5" × 1" HIGH ATA – 5 IDE HARD DRIVES								
MPF3102AT UATA	10.2GB	5400	69-23-09	72.63	75.99	75.23	74.48	NEW
MPF3153AT UATA	15.3GB	5400	69-49-69	82.19	85.99	85.13	84.28	NEW
MPF3204AT UATA	20.4GB	5400	69-12-64	90.79	94.99	94.04	93.10	NEW
FIJITSU AL6 3.5" × 1" HIGH SCSI 160M INTERFACE HARD DRIVES								
MAH3091MP 160M LVD-WIDE	9.1GB	7200	69-64-68	CHECK ONLINE	◆	◆	FREE Call	NEW
MAH3091MC 160M LVD-SCA	9.1GB	7200	69-76-75	CHECK ONLINE	◆	◆	FREE Call	NEW
MAH3182MP 160M LVD-WIDE	18.2GB	7200	69-78-05	CHECK ONLINE	◆	◆	FREE Call	NEW
MAH3182MC 160M LVD-SCA	18.2GB	7200	69-82-32	CHECK ONLINE	◆	◆	FREE Call	NEW
MAJ3091MP 160M LVD-WIDE	9.1GB	10000	69-62-58	CHECK ONLINE	◆	◆	FREE Call	NEW
MAJ3091MC 160M LVD-SCA	9.1GB	10000	69-15-23	CHECK ONLINE	◆	◆	FREE Call	NEW
MAJ3182MP 160M LVD-WIDE	18.2GB	10000	69-18-12	CHECK ONLINE	◆	◆	FREE Call	NEW
MAJ3366MP 160M LVD-WIDE	36.4GB	10000	69-31-39	CHECK ONLINE	◆	◆	FREE Call	NEW

OTHER ITEMS

FOR GRAPHICS CARD SEE PAGES 231–235
FOR PROCESSORS SEE PAGES 210, 211

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

HARD DISK DRIVES – INTERNAL EIDE KITS *WESTERN DIGITAL*





Western Digital's latest generation of high-performance **WD Caviar bare hard drives,** using the Enhanced IDE interface, sets new standards for storage, performance and reliability.

With storage capacities up to 45GB, these workhorse drives are engineered to handle today's most storage-intensive desktop, workstation, multimedia and Internet applications and utilising the UDMA-66 EIDE interface, the Caviar and the Expert achieve even higher performance in a larger capacity drive.

Western Digital's award winning Caviar hard drives are the best choice for powerful systems running Windows 95, 3.x, NT, OS/2 Warp, Novell NetWare, or Unix operating systems on 486, Pentium, Pentium Pro, Pentium II, PowerPC, or RISC-based processors.

Western Digital hard drive kits provide you with everything you need to get your new drive up and running: hard drive, mounting hardware, cable and detailed instructions.

3 Year Warranty

	DESCRIPTION	RPM	CAPACITY	ACCESS TIME	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	EIDE BARE DRIVES (UDMA) 3½" HIGH (supplied bare with no cables, fixing rails or installation guides)								
	WD64AA	5400	6.4GB	10msec	68-65-41	59.99	65.99	65.33	64.68
	WD84AA	5400	8.4GB	10msec	55-27-61	66.99	69.99	69.29	68.60
	WD102AA	5400	10GB	10msec	62-18-05	72.99	76.99	76.22	75.46
NEW	WD153AA	5400	15.3GB	10msec	69-18-00	85.99	89.99	89.09	88.20
	WD205AA	5400	20GB	10msec	64-22-31	109.99	◆	115.99	114.83
	WD272AA	5400	27.2GB	10msec	69-49-52	139.99	◆	149.99	148.49
	WD307AA	5400	30.7GB	10msec	53-00-10	149.99	◆	155.99	154.43
NEW	WD450AA	5400	45GB	10msec	69-31-26	205.99	◆	214.95	212.80
✂	Expert WD102BA	7200	10.2GB	10msec	69-53-48	91.99	95.99	95.03	94.08
NEW	Expert WD153A	7200	15.3GB	10msec	69-31-22	99.99	◆	109.99	108.89
	Expert WD205BA	7200	20.5GB	10msec	69-53-56	129.99	◆	135.99	134.63
	EIDE KITS (UDMA) 3½" HIGH (complete with mounting kit and cable)								
	Caviar WD102AA-RTL	5400	10.1GB	10msec	62-46-51	84.99	88.99	88.10	87.22
NEW	Caviar WD300AA-RTL	5400	30GB	10msec	69-53-82	134.99	◆	139.99	138.59
	Expert WD102BARTL	7200	10GB	10msec	38-29-81	94.99	99.99	98.99	98.00
	Expert WD136BA-RTL	7200	13.6GB	10msec	69-94-84	111.99	◆	115.99	114.83
NEW	Expert WD150BA-RTL	7200	15GB	10msec	69-95-02	114.99	◆	119.95	118.75
	Expert WD205BA-RTL	7200	20.5GB	10msec	69-70-26	144.50	◆	149.99	148.49

OTHER ITEMS
FOR GUIDE TO STORAGE SEE PAGE 215
FOR TAPE DRIVES SEE PAGES 265–271

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

HARD DISK DRIVES – 3½" IDE/SCSI

WESTERN DIGITAL

A new family of hard drives geared specifically to the home entertainment market for use in digital video recorders, set-top boxes, home servers, audio/video juke boxes, television receivers and other consumer products. The **Western Digital Performer** line of hard drives is designed to provide a steady flow of data, quiet operation and the ability to handle multiple streams of data for simultaneous viewing and recording.
The WD Performer features 9.1GB per platter and is available in 27.2GB, 18.1GB, 13.6GB and 9.1GB capacities. The new WD Performer 27.2GB hard drive provides the user with over 25 hours of standard MPEG video storage or over 500 hours of CD-quality MP3 audio.

The **WD Vantage Ultra2 SCSI hard drive** is the first 10,000 RPM drive designed especially for entry-level servers, network-attached storage solutions, technical workstations and high-performance PCs. These drives provide very quiet operation, low power consumption and top performance.



69-39-01

All drives are supplied bare, with no fixings, cables or installation guide.

Model	Performer WD91AW	Performer WD136AW	Performer WD181AW	Performer WD272AW
Formatted capacity	9.1GB	13.6GB	18.1GB	27.2GB
Interface	Ultra ATA-66			
Average seek	10msec			
MTBF	500,000 hours			
Spindle speed	5,400rpm			
Cache buffer	2MB			
Transfer rate	66.6MB/s max			
Dimensions (W×D×H)	101.6×146×25.4mm			
Warranty	3 Years			

NB: SCSI drive dimensions are 101.6×146mm.

DESCRIPTION	RPM	PINS	CAPACITY	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
PERFORMER ULTRA ATA-66 3½" HARD DRIVES									
WD91AW	5400	—	9.1GB	69-70-41	89.99	94.99	94.04	93.10	NEW
WD136AW	5400	—	13.6GB	69-23-01	92.99	97.99	97.01	96.04	NEW
WD181AW	5400	—	18.1GB	69-49-62	107.99	◗	111.99	110.87	NEW
WD272AW	5400	—	27.2GB	69-12-59	149.99	◗	157.99	156.41	NEW
VANTAGE BARE LVD (LOW VOLTAGE DIFFERENTIAL) ULTRA2/ULTRA 160m SCSI HARD DRIVES (3 year warranty)									
WDE91FG	10000	68pin	9.1GB	69-39-01	198.88	◗	205.99	203.93	
WDE183FN	10000	50pin	18.3GB	69-27-77	305.99	◗	319.99	316.79	

OTHER ITEMS

FOR PROCESSORS AND UPGRADES SEE PAGES 208–211
FOR GRAPHICS CARDS SEE PAGES 232–235

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

HARD DISK DRIVES – INTERNAL 3½" EIDE/SCSI

Seagate



The demand for capacity continues to increase, both in terms of overall disk drive capacity and also capacity per disk (areal density). The push to increase areal density remains as strong as ever, more data on a disk means lower cost per megabyte.

Seagate Medalist drives are designed for desktop personal computers. **Medalist Pro** drives are the fastest members of the family and typically lead the industry in performance and technology.

The **Barracuda® ATA II** is the world's fastest and toughest 7,200rpm ATA drive, featuring the fastest seek time, best acoustics in its class and Seagate's 3D Defense System for top reliability. Targeted at value-performance and commercial desktop systems, the Barracuda ATA II family offers a performance improvement of up to 15% over Seagate's latest best-in-class desktop products.

Please call our Pre-Sales Technical support team free of charge on 08701 66 44 44 if you are unsure of your requirements.

NB: All drives on this page are supplied bare with no cables, fixings or installation guide.

3½" MEDALIST U8 ULTRA ATA66 HARD DISK DRIVES (5,400rpm)

	DESCRIPTION	FORMATTED CAPACITY	ACCESS TIME	SEAGATE PART NO	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	Medalist U8 U ATA66	4.3GB	8.9msec	ST34313A	69-53-57	54.99	59.99	59.39	58.80
NEW	Medalist U8 U ATA66	10.2GB	8.9msec	ST310212A	69-17-96	64.99	71.99	71.27	70.56
	Medalist U8 U ATA66	8.4GB	8.5msec	ST38410A	69-17-64	63.55	65.99	65.33	64.68
	Medalist U8 U ATA66	13GB	8.5msec	ST313021A	69-30-95	76.46	79.99	79.19	78.40
NEW	Medalist U8 U ATA66	15.3GB	8.9msec	ST315323A	69-31-23	82.99	87.99	87.11	86.24
✂	Medalist U8 U ATA66	17GB	8.5msec	ST317221A	69-76-59	89.99	92.99	92.06	91.14

3½" BARRACUDA ATA ULTRA ATA 66 HARD DISK DRIVES (7,200RPM)

NEW	Barracuda ATA 66	20.4GB	8.6msec	ST320420A	69-17-99	119.64	♦	122.99	121.76
NEW	Barracuda ATA II	10.2GB	8.2msec	ST310210A	69-18-03	75.99	79.99	79.19	78.40
NEW	Barracuda ATA II	15.3GB	8.2msec	ST315320A	69-31-30	99.99	♦	105.99	104.93
NEW	Barracuda ATA II	20.4GB	8.2msec	ST320420A	69-53-87	119.99	♦	125.99	124.73
NEW	Barracuda ATA II	30.6GB	8.2msec	ST330630A	69-95-05	149.99	♦	155.99	154.43

3½" MEDALIST PRO SCSI HARD DISK DRIVES (7,200rpm)

	Medalist Pro (Ultra-2 SCSI) (50pins)	4.5GB	10msec	ST34520N	55-95-44	125.99	♦	129.99	128.69
✂	Medalist Pro (LVD WIDE SCSI) (68pins)	9.1GB	9.5msec	ST39140LW	64-54-08	164.99	♦	169.99	168.29

OTHER ITEMS

FOR GUIDE TO HARD DISK DRIVES SEE PAGE 215

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
>> Save £££'s!
>> Check live stock
>> Track order status

HARD DISK DRIVES – INTERNAL 3½" SCSI

Seagate



Seagate's Barracuda high performance drives designed with unmatched performance and reliability are aimed at high-end desktops, entry-level workstations, disc arrays, file servers and video.

The Barracuda Family of products supports capacities from 9.1 to 50.1 Gbytes and incorporates Ultra SCSI, Ultra2 SCSI, Ultra160 SCSI and Fibre Channel interfaces. The 7,200-rpm Barracuda class of products allows a wide range of choices. With the industry's first 1,200,000-hour MTBF, the Barracuda defines the market standard for exceptional performance.

- Fifth & Sixth generation 7,200rpm.
- Advanced SCSI Architecture (ASA II).
- S.M.A.R.T.
- Average seek times as fast as 5.9msec.

The **Cheetah** range of industry-leading performance drives are aimed at the most demanding applications, Internet Servers, Workstations, Network File Servers and Enterprise Servers.

- Seashell revolutionary packaging for handling reliability and convenience.
- Provides design maturity and reliability.
- Advanced Interfaces for the Millennium.
- 3D Defense System.

DESCRIPTION	FORMATTED CAPACITY	ACCESS TIME	SEAGATE PART NO	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
BARRACUDA DRIVES (7,200rpm) SCSI 3½" (XL=U160)									
Barracuda 9LP 80pin LVD	9.1GB	7.1ms	ST39175LC	36-99-93	183.43	◗	189.99	188.09	
Barracuda 9LP (Fibre Ch.)	9.1GB	7.1ms	ST39175FC	64-11-22	189.22	◗	195.99	194.03	
Barracuda 18XL 50pin	9.2GB	6ms	ST39216N	69-31-03	163.99	◗	169.99	168.29	
Barracuda 18XL 68pin	9.2GB	6ms	ST39216W	69-39-02	163.99	◗	169.99	168.29	
Barracuda 18XL 68pin LVD	9.2GB	6ms	ST39236LW	69-94-86	159.99	◗	165.99	164.33	
Barracuda 18XL 68pin LVD	18.4GB	6ms	ST318436LW	69-08-45	229.99	◗	237.99	235.61	✂
Barracuda 36 80pin LVD	36.4GB	6ms	ST136475LC	69-18-06	529.99	◗	549.99	544.49	NEW
Barracuda 50 68pin LVD	50.1GB	7.4ms	ST150176LW	98-17-57	599.99	◗	625.99	619.73	
Barracuda 50 80pin LVD	50.1GB	7.4ms	ST150176LC	69-18-16	599.99	◗	625.99	619.73	NEW
CHEETAH DRIVES (10,000rpm) SCSI 3½"									
Cheetah 18XL 68pin LVD	9.2GB	6ms	ST39204LW	69-17-97	239.99	◗	249.99	247.49	NEW
Cheetah 18LP (LVD-SCA) 80pin	9.1GB	6ms	ST39103LC	69-53-60	229.99	◗	239.99	237.59	
Cheetah 18XL 68pin LVD	18.2GB	6ms	ST318404LW	69-31-33	345.99	◗	359.99	356.39	NEW
Cheetah 18XL 80pin LVD	18.2GB	6ms	ST318404LC	69-53-90	349.99	◗	359.99	356.39	NEW
Cheetah 36LP 68pin LVD	36GB	6ms	ST336704LW	69-95-08	599.99	◗	629.99	623.69	NEW
Cheetah 36LP 80pin LVD	36GB	6ms	ST336704LC	69-17-46	599.99	◗	629.99	623.69	NEW
Cheetah 73HH 68pin LVD	73.4GB	6ms	ST173404LW	69-70-48	1229.99	◗	◗	1249.99	NEW

OTHER ITEMS

FOR GUIDE TO STORAGE SEE PAGE 215

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

HARD DISK DRIVES – 3½" EIDE

Quantum



ALL DRIVES ARE SUPPLIED BARE, WITH NO FIXINGS, CABLES OR INSTALLATION GUIDES

The **Fireball Plus LM** drive is the optimum choice for the most demanding applications, including graphics-intensive desktop publishing, complex CAD/CAM, MMX multimedia, DVD and sophisticated financial modeling.
With Quantum's advanced DPS and SPS systems and a full 3-year warranty, the Fireball Plus LM drive achieves a new level of dependability along with proven performance.

Intelligently Priced Leading-Edge Performance The **Fireball *lct*** family from Quantum, features their new, second-generation Shock Protection System II (SPS II), with enhanced protection against both operating and non-operating shock.
With its 9.5 millisecond (ms) seek time, 257 megabyte-per-second (MB/sec) internal transfer rate, 512 kilobyte (KB) buffer, and 5,400 RPM rotational speed, Fireball *lct* hard drives deliver the performance needed for the most demanding home and small-business applications. To ensure optimum throughput, fireball *lct* drives feature the Quantum-developed, high-performance Ultra ATA/66 interface, which virtually doubles the burst data rate, with enhanced data integrity via improved timing margins and Cyclical Redundancy Check (CRC).
Fireball *lct* also uses the Quantum-pioneered Data Protection System (DPS), which verifies essential functions in seconds to eliminate costly and unnecessary drive returns.
Building on the proven Fireball platform, the Fireball lct15 line of drives use advanced, integrated electronics combined with numerous design innovations to achieve a wide range of capacity points, solid reliability and quiet operation all at very competitive prices.

Model	Quantum Fireball *lct* + LM
Storage Capacity	5.1 to 30.0GB
Average Seek Time:	8.5 or 9.5ms
Rotational Speed:	5,400 or 7,200rpm
Buffer Size:	512KB
Internal Transfer Rate:	257MB/sec

	DESCRIPTION	CAPACITY	RPM	HEIGHT	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	+LM QMP 10200LM-A	10.2GB	7200	1.0"	69-17-91	79.99	83.99	83.15	82.32
NEW	+LM QMP 15000LM-A	15.0GB	7200	1.0"	69-31-20	95.99	99.99	98.99	98.00
NEW	+LM QMP 20500LM-A	20.5GB	7200	1.0"	69-53-75	112.99	◗	115.99	114.83
NEW	+LM QMP 30000LM-A	30GB	7200	1.0"	69-94-96	170.99	◗	175.99	174.99
	LCT10 QML05100LB-A	5.1GB	5400	1.0"	69-12-46	57.77	59.99	59.39	58.80
	LCT10 QML10200LB-A	10.2GB	5400	1.0"	69-08-39	67.99	70.99	70.28	69.58
	LCT10 QML15000LB-A	15.0GB	5400	1.0"	69-17-61	79.99	85.99	85.13	84.28
	LCT10 QML20400LB-A	20.4GB	5400	1.0"	69-30-90	95.99	99.99	98.99	98.00
✂	LCT10 QML30000LB-A	30.0GB	5400	1.0"	69-38-97	135.99	◗	139.99	138.59
NEW	LCT15 QML07500LC-A	7.5GB	7200	1.0"	69-18-05	59.99	65.99	65.33	64.68
NEW	LCT15 QML15000LC-A	15.0GB	7200	1.0"	69-31-31	88.99	92.99	92.06	91.14
NEW	LCT15 QML20000LC-A	20.4GB	7200	1.0"	69-53-88	97.99	99.99	98.99	98.70
NEW	LCT15 QML30000LC-A	30.0GB	7200	1.0"	69-95-06	144.99	◗	149.99	148.49

OTHER ITEMS
FOR PROCESSORS AND UPGRADES SEE PAGES 208–210
FOR GRAPHICS CARDS SEE PAGES 232–235

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

HARD DISK DRIVES INTERNAL 3½" SCSI

Quantum

The award winning Atlas series from Quantum continues its tradition as market leader in 3.5" hard drives with the **Atlas 10K**. Achieving an incredibly fast average seek time of 5.0msec (5.5msec on 36.4GB models) with an RPM of 10,000 and rotational latency of 3.0msec, together with 26MB peak sustained throughput they deliver the random I/O performance and sequential throughput capability demanded by data-intensive applications. Using the Ultra 160/m SCSI interface, the Atlas 10K provides bus speeds of up to 160MB/sec and offer exceptional connectivity features to support large-scale multi-drive topologies.

- Huge capacities up to 36.4GB.
- Ultra 2 SCSI interface.
- 7.8ms access time & 180MB/sec data rate.

The **Atlas V** provides outstanding performance with a 7,200 RPM, 29MB/sec maximum sustained data throughput, economical 9.1GB-per-platter design, up to 36GB of storage capacity in a 1-inch-high form factor, making the Atlas Vs truly exceptional value. They also include Quantum's leadership Shock Protection System II, which guards against non-operating shocks of up to 300Gs.

- Lightening-fast 6.3msec average seek time.
- Ultra 60 SCSI interface.
- Cyclical Redundancy Check (CRC).



Model	Atlas V	Atlas 10K
Interface	Ultra 160 SCSI	Ultra SCSI
Buffer size	2MB	
Average seek time	6.3msec	5.0/5.5msec
RPM	7,200 RPM	10,000 RPM
Form factor	3.5"	
Warranty	5 years	

DESCRIPTION	RPM	INTERFACE	CAPACITY	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
ATLAS V SCSI HARD DISK DRIVES 3½" (2MB) ULTRA 160 SCSI INTERFACE								
Atlas V QM3091XC-LW	7200	68 pin	9.1GB	69-17-28	153.99	➧	159.99	158.39
Atlas V QM3091XC-SCA	7200	80 pin	9.1GB	69-70-27	153.99	➧	159.99	158.39
Atlas V QM3184XC-LW	7200	68 pin	18.3GB	69-22-88	239.99	➧	249.99	247.49
Atlas V QM3184XC-SCA	7200	80 pin	18.3GB	69-49-53	239.99	➧	249.95	247.45
Atlas V QM336700XC-LW	7200	68 pin	36.7GB	69-12-50	485.99	➧	499.99	494.99
Atlas V QM336700XC-SCA	7200	80 pin	36.7GB	69-08-44	485.99	➧	499.99	494.99
ATLAS 10K SCSI HARD DISK DRIVE 3½" (2MB) ULTRA 1601M SCSI AND FIBRE								
Atlas 10K QM309100TN-LW	10000	68 pin	9.1GB	64-49-48	229.99	➧	239.99	237.59
Atlas 10K QM309100TN-SCA	10000	80 pin	9.1GB	64-17-62	229.99	➧	239.99	237.59
Atlas 10K QM318200TN-LW	10000	68 pin	18.2GB	64-30-92	359.99	➧	369.99	366.29
Atlas 10K QM318200TN-SCA	10000	80 pin	18.2GB	64-53-49	359.99	➧	369.99	366.29
Atlas 10K QM336400TN-LW	10000	68 pin	36.4GB	64-94-80	619.99	➧	639.99	633.59
Atlas 10K QM336400TN-SCA	10000	80 pin	36.4GB	64-17-22	619.99	➧	639.99	633.59

OTHER ITEMS

FOR THIRD PARTY MEMORY UPGRADES SEE PAGES 190–199
FOR IDE & SCSI CABLES SEE PAGES 576, 578
FOR LAPLINK SOFTWARE SEE PAGE 878

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

HARD DISK DRIVES 3½" EIDE/SCSI



Extending leadership in storage capacity and performance
The **IBM Deskstar** (Desktop PCs) and **Ultrastar** (Servers and Workstations) hard disk drives delivers high-performance, reliable data storage, and industry-leading capacity points for today's cutting-edge applications.

IBM Deskstar
Desktop HDDs offer a full breadth of capacity points with rotational speeds of 7,200 RPM and 5,400 RPM. Includes the award-winning Drive Fitness Test (DFT)/hardsoft/diskdrdl/desk/popdft.htm, S.M.A.R.T. Self Test/hardsoft/diskdrdl/desk/popsmart.htm, and Error-logging.

IBM Ultrastar
The IBM **Ultrastar 36LP** is designed to provide a reliable, cost-effective storage solution for a wide range of workstations, high-performance desktop systems and LAN and enterprise servers running a variety of Internet, Intranet, CAD/CAM, multimedia, transaction processing and data mining applications.
They achieve a high level of reliability, performance and affordability by leveraging advanced IBM disk drive technologies, including: giant magnetoresistive (GMR) head technology, No-ID sector formatting, the Partial Response Maximum Likelihood (PRML) digital data channel and a new integrated Large Scale Integration (LSI) chip for advanced hardware automation.
IBM Ultrastar 36LP drives support Ultra2 SCSI and Ultra160 SCSI interfaces.

NOTE: 80 pin SCA2 Interface Drives also available. Please call for details.

All drives are supplied bare with no cables, fixing rails or installation guides.

	DESCRIPTION	CAPACITY	ACCESS TIME	PART NO	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	DESKSTAR 3½" EIDE DRIVES (5,400RPM) 1.02" high								
NEW	Deskstar 40GV (ATA 66)	20GB	9.5ms	07N3924	69-27-87	105.99	➧	110.99	109.88
	DESKSTAR 3½" EIDE DRIVES (7,200RPM) 1.02" high								
NEW	Deskstar 75GXP (ATA 66)	30GB	8.5ms	07N3929	69-95-00	185.99	➧	195.99	194.03
NEW	Deskstar 75GXP (ATA66)	45GB	8.5ms	07N3931	69-17-39	249.99	➧	259.99	257.39
NEW	Deskstar 75GXP (ATA66)	60GB	8.5ms	07N3933	69-31-21	345.99	➧	359.99	356.39
NEW	Deskstar 75GXP (ATA66)	75GB	8.5ms	07N3935	69-70-40	419.99	➧	435.99	431.63
	ULTRASTAR 3½" SCSI DRIVES (7,200RPM) 1.02" high								
	Ultrastar 18ES (UWSCSI 68pin T)	9.1GB	7ms	25L1810	69-08-40	153.99	➧	159.99	158.39
	Ultrastar 18ES (U2SCSI 68pin)	9.1GB	7.5ms	25L1910	69-22-80	153.99	➧	159.99	158.39
	Ultrastar 18ES (USCSI 50pin T)	18.3GB	7ms	25L1780	48-12-58	229.99	➧	235.99	233.63
	Ultrastar 18ES (UWSCSI 68pin T)	18.3GB	7ms	25L1800	69-38-98	229.99	➧	235.99	233.63
NEW	Ultrastar 36LP (U160 SCSI 68pin)	9.1GB	6.8ms	07N3120	69-49-67	164.99	➧	169.99	168.29
NEW	Ultrastar 36LP (U160 SCSI 80pin)	9.1GB	6.8ms	07N3150	69-12-62	164.99	➧	169.99	168.29
NEW	Ultrastar 36LP (U160 SCSI 68pin)	18GB	6.8ms	07N3110	69-08-55	259.99	➧	269.99	267.29
NEW	Ultrastar 36LP (U160 SCSI 68pin)	36GB	6.8ms	07N3100	69-39-11	484.99	➧	499.00	494.01
	ULTRASTAR 3½" SCSI DRIVES (10,00RPM) 1.53" high								
	Ultrastar 36ZX (SCSI 68pin)	36GB	5ms	09L3903	69-98-33	584.99	➧	599.99	593.99

OTHER ITEMS
FOR GUIDE TO STORAGE SEE PAGE 215
FOR IDE & SCSI CABLES SEE PAGES 576–579

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

HARD DISK DRIVES – 3.5" IDE — MAXTOR

Slip into top gear performance with Maxtor! The emergence of multimedia, Internet and audio/video applications places an ever-greater demand on the speed and storage capacity of personal computer platforms. To help you keep pace with this relentless development and stay in the race for more power and speed, Matrox now brings you its fifth generation 7,200 rpm **DiamondMax** Hard drives.
For high-end PCs, small servers and entry point RAID applications, these drives deliver the recognised advantages of DualWave, ShockBlock and MaxSafe technologies and offer performance levels that compare with SCSI.



Matrox also offers two ranges of 54,000rmp disks, **Diamond Max** for desktop PCs and **DiamondMax VL**, specifically designed for entry-level PCs.
DiamondMax VL30 and DiamondMax 60 feature:
- Fast ATA/enhanced IDE compatible.
- Digital signal processor (DSP)-based architecture.
- UltraDMA 66 Data Transfer Rate.
- 2MB SDRAM cache buffer.
- 9.0ms seek time.

www.action.com for more products

Model	DiamondMax 40	DiamondMax VL	DiamondMax
Interface	IDE UDMA-66		
Average seek time	9msec	9.5msec	9msec
RPM	5,400		7,200
Form factor	3.5"		
Height	1.02"		

DESCRIPTION	RPM	CAPACITY	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
MAXTOR DIAMONDMAX 3.5" IDE HARD DRIVES (WHITE BOX) 5400 RPM								
DiamondMax VL20	5400	10.2GB	69-98-43	66.99	69.99	69.29	68.60	NEW
DiamondMax VL20	5400	15.3GB	69-53-89	82.99	86.99	86.12	85.26	NEW
DiamondMax VL20	5400	20.4GB	69-64-70	91.99	95.99	95.03	94.08	NEW
DiamondMax VL30	5400	30GB	69-18-15	119.99	◗	125.99	124.73	NEW
DiamondMax 40	5400	30.7GB	69-76-76	115.99	◗	119.99	118.79	NEW
DiamondMax 40	5400	40.9GB	69-78-06	159.99	◗	165.99	164.33	NEW
DiamondMax 60	5400	46GB	69-31-42	164.99	◗	169.99	168.29	NEW
DiamondMax 60	5400	61GB	69-53-97	215.99	◗	225.99	223.73	NEW
MAXTOR DIAMONDMAX 3.5" IDE HARD DRIVES (RETAIL PACKAGING) 7200 RPM								
DiamondMax	7200	10.2GB	69-82-33	76.50	79.99	79.19	78.40	NEW
DiamondMax	7200	20GB	63-15-24	722.47	◗	725.00	724.28	NEW
DiamondMax	7200	30GB	69-62-59	134.99	◗	139.99	138.59	NEW
DiamondMax	7200	40GB	69-31-51	169.99	◗	175.99	174.23	NEW

OTHER ITEMS

FOR PROCESSORS AND UPGRADES SEE PAGES 208–211
FOR GRAPHICS CARDS SEE PAGES 232–235

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW item on this page

HARD DISK DRIVES

COMPAQ

DESCRIPTION	FOR USE WITH	PART NO	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NOTEBOOK HARD DRIVES FOR ARMADA							
25GB Hard Drive	E700	155759-B25	63-49-97	963.02		978.99	973.12
14GB Hard Drive	7800/E700	354231-B25	63-12-96	542.00		550.99	547.68
12GB SMART HDD	7400/7800/E700	163531-B25	63-28-02	398.38		404.99	402.56
MultiBay 10GB SMART HDD	V700/E500/M300/7400/ M700/7800/E700	128628-B25	64-77-65	379.69		385.99	383.67
DESKTOP PC ACCESSORIES							
6.4GB Ultra ATA 66	DeskPro EP/EN	124721-B21	63-17-50	116.06		117.99	117.28
13.5GB Ultra ATA 66	DeskPro EP/EN	124723-B21	63-70-49	155.41		157.99	157.04
9.1GB Ultra Wide 2-SCSI	DeskPro EP/EN	120204-B21	63-22-91	229.19		232.99	231.59
EW 20GB Hard Drive	DeskPro EP 6650	124724-B21	63-19-46	161.31		163.99	163.01

FILE SERVER DRIVES

COMPAQ

DESCRIPTION	PART NO	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
INTERNAL STORAGE						
9.1GB Ultra 2 SCSI Drive	349526-B21	63-70-40	235.58		244.00	241.56
18.2GB 1" Ultra 2 Drive	388143-B21	63-31-25	410.33		425.00	420.75
PLUGGABLE HARD DRIVES FOR PROLIANT 1200, 1600, 2500, 3000, 5000, 5500, 6000, 6500, 7000						
9.1GB 1" Pluggable Wide-Ultra SCSI-3 Drive	313706-B21	68-68-57	279.02		289.00	286.11
9.1GB 1" Pluggable Wide-Ultra SCSI-3 Drive (10K-IIRPM)	336357-B21	62-17-26	322.47		334.00	330.66
9.1GB 1" Pluggable Ultra 2 Universal	328939-B22	63-39-16	322.47		334.00	330.66
18.2GB 1" Pluggable Wide-Ultra SCSI-3 Drive	400739-B21	63-17-77	489.49		507.00	501.93
18.2GB 1" Pluggable Wide-Ultra SCSI-3 Drive (10K-II)	128417-B21	63-54-12	605.35		627.00	620.73
18.2GB 1" Pluggable Ultra 2 Universal	388144-B22	63-18-14	490.46		508.00	502.92
Ultra 2 Drive cage for PL3000, 5500	382157-B21	63-71-12	218.87		225.00	222.75
Ultra 2 Drive cage for PL1600	382159-B21	63-71-29	221.79		228.00	225.72
Ultra 2 Drive cage for PL1650 (9×1")	382158-B21	63-71-36	397.86		409.00	404.91
SCSI-3 HP Drive cage (5×1") for PL1200, 1250, 1600	271912-001	13-14-81	121.60		125.00	123.75
Ultra 2 Drive cage for PL7000	328820-B21	63-18-44	299.61		308.00	304.92

OTHER ITEMS

FOR COMPAQ NOTEBOOKS SEE PAGES 61–64
FOR COMPAQ DESKTOPS SEE PAGES 154–159
FOR COMPAQ SERVERS SEE PAGES 168–175

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

HARD DISK DRIVES

DESCRIPTION	PART NO	FOR USE WITH	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NOTEBOOK PC ACCESSORIES							
6.4GB HDD	02K0518	570/600/E	55-64-20	251.95		259.00	256.41
10.0GB HDD	36L9293	570/600/E	52-95-21	646.86		669.99	663.29
DESKTOP PC ACCESSORIES							
6.4GB EIDE (5400RPM)	33L4959	PC300GL/PL	63-54-17	102.14		105.00	103.95
10.1GB EIDE (7200RPM)	20L0548	PC300GL/PL	63-95-30	275.15		284.99	282.14

HARD DISK DRIVES

DESCRIPTION	PART NO	FOR USE WITH	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NOTEBOOK PC ACCESSORIES							
12.0GB HDD Module	F1746B	OmniBk 900/4150	69-62-54	491.25		505.00	499.95
6.0GB HDD	F1762B	OmniBook XE2	69-31-46	388.13		399.00	395.01
DESKTOP PC ACCESSORIES							
4.3GB IDE HDD	D8371A	Vectra VE/VLi	63-17-89	143.86		149.00	147.51
6.4GB IDE HDD	D8372A	Vectra VE/VLi	63-31-77	154.47		159.99	158.39
FILE SERVER ACCESSORIES							
9.1GB Ultra Wide SCSI HDD	D4911A	E50/E60	62-16-47	282.10		290.00	287.10
18.2GB Hot-swap Wide Ultra Fast SCSI-2 Disk Drive (7200rpm)	D5039A	LC3	63-10-53	612.84		630.00	623.70
9.1GB Hot-swap Ultra SCSI-2 HDD (7200rpm)	D6106A	LH3/4	29-26-43	290.86		299.00	296.01
9.1GB Low Profile Hot-Swap Ultra 2 SCSI-2 Disk Drive (10Krpm)	D6107A	LH3/4	25-90-19	408.56		420.00	415.80
9.1GB Ultra Wide SCSI HDD (10Krpm)	D7049A	E50/60/LC3	63-22-90	340.47		350.00	346.50
18.2GB Ultra Wide SCSI HDD (7200rpm)	D7176A	E50/60/LC3	63-49-66	398.83		410.00	405.90
18GB Ultra 2 Low Profile Hot-swap HDD (10Krpm)	D7175A	LH3/4	63-39-17	690.67		710.00	702.90

HARD DISK DRIVES

DESCRIPTION	PART NO	FOR USE WITH	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NOTEBOOK PC ACCESSORIES							
2.02GB HDD expansion	PA2660U	Tecra 500/510/730/740/750/780	86-38-69	375.56		388.99	385.10
2.02GB HDD expansion	PA2609U	Sat 220/230/Sat Pro 440/460/480, Tecra 520/530/540/550	67-63-17	375.56		388.99	385.10
3.8GB HDD expansion	PA2667U	Tecra 8000	62-44-55	243.18		249.99	247.49
6.0GB HDD expansion	PA2668U	Tecra 8000/8100	62-45-72	272.37		279.99	277.19

OTHER ITEMS

FOR IBM NOTEBOOK PCs SEE PAGES 67–71
FOR HP NOTEBOOK PCs SEE PAGES 52–54
FOR TOSHIBA NOTEBOOK PCs SEE PAGES 82–91

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PORTABLE 2½" HARD DRIVES — AMACOM



Compressed capacities are only available with the use of the optional Novadisk software

The **Flipdisk** is a portable hard disk that simply plugs into the PCMCIA slot of your notebook PC or the parallel port of your desktop, giving you an instant additional hard disk capacity of up to 20GB (using compression 2:1 with optional Novadisk backup software).
The Flipdisk does away with the need of cumbersome interface cables by using its unique patented Flip PCMCIA card feature. It is also powered directly from the PC, eliminating the need for bulky mains adaptors and making it ideal for use anywhere.

The Flipdisk is ideal for:

- Instantly increasing your hard disk capacity.
- Transferring data between notebook and desktop.
- Storing capacity and carrying confidential data.
- Carrying and running business presentations, video clips and graphics files.
- Hot desking.
- Backing up data at amazing speeds. Compatible with DOS, Unix, OS/2 and Apple operating systems.

DESCRIPTION	INTERFACE	CAT NO	Web Price	PRICE EACH — (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Flip Disk (6.0–12.8GB)	PCMCIA/Parallel Port	55-70-58	315.99	➧	325.99	322.73
Flip Disk (10.0-20.0GB)	PCMCIA/Parallel Port	64-17-68	389.99	➧	405.99	401.93
Flip Disk (12-24GB)	PCMCIA/Parallel Port	69-17-75	429.99	➧	449.99	445.49
Flip Disk (18-36GB)	PCMCIA/Parallel Port	69-31-05	515.99	➧	529.99	524.69
IDE to Parallel cable – Optional	—	55-71-75	28.99	29.99	29.69	29.39
Novadisk backup software	—	55-71-82	13.32	14.95	14.50	14.07

PCMCIA HARD DRIVES – TYPE III — Portable Add-ons



For notebook users seeking additional hard disk capacity and who have a vacant type III PCMCIA slot the **Portable Add-ons Disk Mobile PC Card** is an ideal solution. The Portable Add-ons Card is an ultra-slim hard disk drive with a capacity of 260MB or 520MB. It also provides far greater data security as the drives can be removed and they can also be password protected.
They also have the advantage of being transferable between compatible notebook and desktop PCs.

DESCRIPTION	TYPE	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
520MB PCMCIA hard drive	III	98-77-38	242.99	➧	249.99	247.49
1GB PCMCIA hard drive	III	22-49-99	287.99	➧	294.99	292.04

OTHER ITEMS
FOR GUIDE TO HARD DRIVES SEE PAGE 215
FOR NOTEBOOK PCs & ACCESSORIES SEE PAGES 67–110

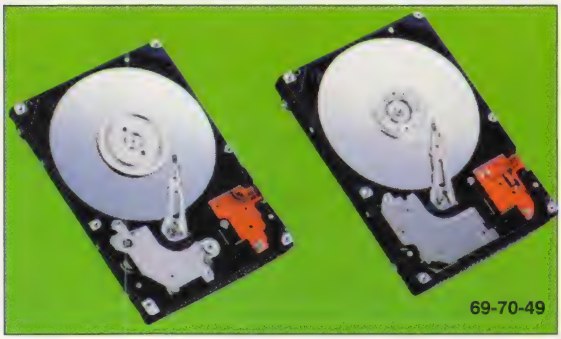
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

HARD DISK DRIVES – 2½"

IBM FUJITSU

Fujitsu's new generation of storage products includes **three new 2½" Mobile Hard Drives** with an UDMA-66 (ATA-5) interface and a spindle speed of 4200 RPM. These drives are available in two profiles. Standard 12.5mm profile drives have a formatted capacity of 18.1GB. Slim profile drives have formatted capacities of 12.0 or 6.0GB and weighing only 98g.

These drives suit a full range of application requirements, from low-end to high-end notebook PCs as well as applications that require Small Form Factor, high shock resistance, low power consumption and low acoustic noise.



Featuring a wide array of leading edge technologies, the **IBM Travelstar 25GS, 18GT** and **12GN** Mobile Hard Drives continue the tradition of IBM leadership in the mobile storage arena. These IBM Travelstar drives employ advanced design and engineering innovations to significantly increase shock resistance while simultaneously reducing heat and noise levels. As a result, the new IBM Travelstar drives are ideally suited for demanding, high-capacity Internet, digital audio, video streaming and real-time multimedia applications – whether users are in the office or on the road.

Model	IBM Travelstar 12GN ATA4	IBM Travelstar 18GT U-DMA	IBM Travelstar 25GS-DMA	Fujitsu 2.5" IDE ATA (9.5mm)
Formatted Capacity	6.0GB	18.0GB	25.0GB	6.0, 12 or 18.1GB
Interface	ATA-5	U-DMA		ATA-5
Average seek	12.0ms			
MTBF	300,000 hours			
Spindle speed	4,200RPM			
Transfer rate	66MB/sec Ultra			
Warranty	3 Years			

Please see www.action.com for more products

DESCRIPTION	CAPACITY	RPM	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
IBM Travelstar 12GN ATA-4	6.0GB	4200	69-53-76	121.99	▶	125.99	124.73	NEW
IBM Travelstar 12GN U-DMA	12GB	4200	69-94-98	179.99	▶	185.99	184.13	NEW
IBM Travelstar 18GT U-DMA	18GB	4200	69-17-38	285.99	▶	295.99	293.03	NEW
IBM Travelstar 25GS U-DMA	25GB	4200	69-70-39	389.99	▶	399.99	395.99	NEW
Fujitsu 2½" IDE ATA-5 (9.5mm)	6.0GB	4200	69-95-09	99.99	▶	105.99	104.93	NEW
Fujitsu 2½" IDE ATA-5 (9.5mm)	12GB	4200	69-17-47	143.99	▶	149.99	148.49	NEW
Fujitsu 2½" IDE ATA-5 (12.5mm)	18.1GB	4200	69-70-49	226.99	▶	235.99	233.63	NEW

OTHER ITEMS
FOR MOTHERBOARDS SEE PAGES 212, 213
FOR PROCESSORS & UPGRADES SEE PAGES 206–211

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

HARD DISK DRIVES – 2½" EIDE

TOSHIBA HITACHI



NB: All drives on this page are supplied bare with no cables, fixings or installation guide.

Toshiba Notebook Drives. Combining high capacity and performance with portability, **Toshiba** have created their range of **slim** and **super slim 2½" EIDE hard disk drives** for use with notebook PCs. In this range of hard drives, Toshiba has achieved an ultra-thin size, lightweight and a low power consumption without compromising the high quality specifications associated with other larger drives.

Features include an average seek of as low as 13msec, a data transfer rate of 66MB/sec in Ultra DMA mode-2 and a 1024KB cache buffer. And those requiring high capacities will not be disappointed with disk space ranging from 6.4 to 18.0GB, achieved using giant magnetoresistive head (GMR) technology. Further features include a versatile build, a fast ATA-4 interface and a three-year warranty, completing a package of reliable, high performance hard drives.

Hitachi Notebook Drives. Firmly established as one of the leading suppliers of **2½" inch hard disk drives** for notebook computers, **Hitachi** offers a full range of high performance drives for notebooks with the larger capacities needed for the latest storage hungry applications.

Hitachi's 9th generation of 2½" hard disk drives feature load/unload technology for premium portable computing applications and provide Self Monitoring Analysis and Reporting Technology (SMART) to reduce the risk of data loss. Dimensions: W × H × D 70 × 9.5 × 100mm.



Model	MK 6014MAP	MK 1214GAP	MK 1814GAV	DK23AA-12
Formatted Capacity	6.4GB	12.0GB	18.0GB	12.0GB
Interface	ATA-4			ATA-5 (IDE)
Average seek	13msec			12msec
MTBF	300,000 hours			
Spindle speed	4,200RPM			
Cache buffer	1024KB			512KB
Transfer rate	66MB/sec (Ultra DMA)			
Warranty	3 years			

PLEASE CALL FOR LATEST PRICES!

	DESCRIPTION	CAPACITY	HEIGHT	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
✂	Toshiba MK 6014MAP Ultra ATA 66	6.4GB	9.5mm	69-30-89	102.99	▶	105.99	104.93
✂	Toshiba MK 1214GAP Ultra ATA 66	12.0GB	9.5mm	64-19-26	149.99	▶	155.99	154.43
NEW	Toshiba MK 1814GAV Ultra ATA 66	18.0GB	12.5mm	69-34-69	261.99	▶	269.99	267.29
	Hitachi DK 23AA-12	12GB	9.5mm	69-62-55	217.99	▶	219.99	219.50

OTHER ITEMS
FOR RAM UPGRADES SEE PAGES 191–192
FOR LAPLINK SOFTWARE SEE PAGE 878

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

HARD DRIVE UPGRADE KIT

FREECOM COMPUTER PERIPHERALS

The Swap Hard Drive Kit featured here is a versatile removable storage solution allowing you to use your files on any PC wherever you need your data. This easy to use IDE External solution enables you to take any redundant or new 3.5" IDE hard drive, install it in the Swap Hard Drive Kit and plug it directly into any parallel printer port or PCMCIA type II slot.



69-20-61

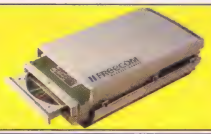
FEATURES AND USES:

- Install in minutes.
- Adding extra disk space (D:.../ etc).
- Internet downloads.
- Store confidential data (keep Swap in a vault).
- Works with Win 95, 98, 3x, NT, DOS, OS/2, 386, 486 or higher PC's.

KIT INCLUDES:

- Screws (for 3.5" IDE hard drives).
- Parallel port/data cable (connects Swap drive to PC).
- Software drivers for Win 95, 98, NT, DOS, OS/2 on CD-ROM.
- Hardware/software installation guide.
- AC/DC universal power adapter, power cable.
- One year full parts/labour warranty.
- Warranty registration card.

The new **Drive in** from **FreeCom** provides the perfect enclosure for certified IDE/ATAPI devices which require an internal drive slot such as CD-ROM or DVD-ROM drives. With simple installation and a maximum transfer rate of 1,200Kb/s, the Drive in offers the ideal alternative for installing internal drives or for adding exterior drives to mobile PCs.



DESCRIPTION	CAPACITY	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Swap Hard Drive Kit	—	69-20-54	57.30	59.95	59.35	58.76
Swap Hard Drive Kit + Disk	4.3GB	69-20-61	139.99	➧	144.95	143.50
Drive in (CD-ROM, DVD-ROM, CD-R, CD-RW)	—	64-49-49	33.66	34.95	34.60	34.25

HARD DRIVE CADDY ADAPTOR

Lian-Li

Data security and mobility is a key issue, especially within Government departments. How can you ensure that files and folders of a sensitive nature are kept confidential?
One solution is the cunningly simple **Hard Drive Caddy Adaptor** designed for both IDE and SCSI hard drives.
The hard drive slots into the adaptor which in turn slots directly into your PC, giving you an instantly portable hard drive. Both have a carrying handle and are ideal for transporting data between sites, locking data away for safe keeping, or increasing your hard drive capacity with interchangeable drives.


69-51-47

Caddy Adaptors featured are for 3½" × 1" HDDs.

Cat No: 69-18-10 features a fast ATA66 cable, rear fan and electronic lock.

DESCRIPTION	FOR USE WITH	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Hard Drive Caddy (IDE)	3,600–4,500 RPM HDD	65-17-57	23.99	25.99	25.21	24.45	
Hard Drive Caddy (SCSI)	3,600–4,500 RPM HDD	69-51-47	19.99	24.99	24.24	23.51	
Hard Drive Caddy (IDE) 1 rear fan	3,600–7,200 RPM HDD	69-18-10	29.99	32.99	32.00	31.50	NEW

OTHER ITEMS

FOR GUIDE TO HARD DRIVES SEE PAGE 215
FOR THIRD PARTY RAM UPGRADES SEE PAGES 192–205
FOR TAPE DRIVES SEE PAGES 265–274

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

DATA STORAGE ENCLOSURES

Kingston TECHNOLOGY



For fixed storage enclosures, Kingston provides the **Data Stacker** and **Data Silo** range.
The Data Stacker **DS60** holds up to two 3.5" half height fixed SCSI hard drives or removable front loading devices and are made with a simple "Snap-n-Stack" design for easy stackable storage.
The Data Silo **DS100** houses 3.5" and 5.25" SCSI devices, including the Data Express removable frames and carrier units. The DS100 also comes equipped with an enhanced power supply, cooling fan and device mounting hardware.

FEATURES:
- Superior cooling.
- Supports SCSI 2, 3 and Ultra.
- RAID compatible with all major peripherals brands.
- 7 year warranty.

See www.action.com for information on Kingston products



PART NO.	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DATA STACKER – (FOR FIXED DRIVES ONLY)						
DS60-S1MM	SCSI 2 Microminiature (50 Pin) – (1 Bay)	68-84-53	59.99	62.95	62.32	61.70
DS60-S1W	SCSI 3+Ultra (68 Pin) – (1 Bay)	68-84-60	63.99	67.95	67.27	66.60
DS60-S2MM	SCSI 2 Microminiature (50 Pin) – (2 Bay)	68-84-77	79.99	84.95	84.10	83.26
DS60-S2W	SCSI 3+Ultra (68 Pin) – (2 Bay)	68-84-84	82.99	86.99	86.12	85.26
DATA SILO – (FOR FIXED AND REMOVABLE DRIVES)						
DS100-S1MM	SCSI 2 Microminiature (50 Pin) – (1 Bay)	68-84-91	79.99	85.95	85.09	84.24
DS100-S1W	SCSI 3+Ultra (80 Pin) – (1 Bay)	68-85-18	89.99	94.95	94.00	93.06
DS100-S2MM	SCSI 2 Microminiature (50 Pin) – (2 Bay)	68-85-32	134.99	➧	139.95	138.55
DS100-S2W	SCSI 3+Ultra (68 Pin) – (2 Bay)	68-85-49	149.99	➧	156.99	155.42
DS100-S4MM	SCSI 2 Microminiature (50 Pin) – (4 Bay)	68-85-56	219.99	➧	225.99	223.73
DS100-S4W	SCSI 3+Ultra (68 Pin) – (4 Bay)	68-85-70	236.99	➧	243.99	241.55

OTHER ITEMS
FOR GUIDE TO STORAGE SEE PAGE 215

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

GRAPHICS CARDS

matrox



12-10-88



12-10-16

The **Millennium G400** Series from **Matrox** pushes graphics acceleration to its limit with the absolute fastest 3D, 2D and digital video performance ever harnessed in a single card. It also delivers astounding new features that will literally change the way you see graphics. The unique 256-bit DualBus of the Matrox G400 combined with a full 128-bit memory bus results in the fastest Windows acceleration ever. For the first time, business desktops run as fast as 1600 × 1200, 32bpp as at 640 × 480, 8bpp.
This new technique from Matrox uses powerful single cycle multi-texturing with a throughput of over 5 million triangles per second and 3D rendering at up to 2048 × 1536 resolution to deliver incredible 3D performance. Designed for AGP from the ground up, the Millennium G400 Series delivers lightning fast texturing from AGP memory to support high resolution AGP textures.

The **Marvel G400-TV** all-in-one graphics, video capture and video editing solution is an explosion of multimedia performance and functionality. Get full-resolution, full frame rate capture and playback with hardware-MJPEG compression/decompression. Create dynamic videos with special effects, titles and soundtracks thanks to Avid Cinema's easy-to-use video editing software. The fully programmable TV tuner with digital VCR brings you to the cutting-edge of PC/TV convergence. True DirectX Environment-Mapped Bump Mapping delivers the ultimate in photo-realistic 3D gaming action. And the unique DualHead Display feature supports 2 independent displays with one graphics card and offers several different operating modes that will enhance every application area.

The Millennium G400 Series introduces the highly versatile DualHead Display feature. Unique to Matrox, this revolutionary technology allows a single AGP card to support two separate displays with as many as eight different configuration options. DualHead Display lets you use either an RGB monitor or analogue Flat Panel as your primary display and a separate RGB Monitor, TV, analogue or digital Flat Panel as your secondary display. Unlike traditional multi-monitor solutions that simply allow you to extend your applications across two monitors. DualHead Display offers a variety of new display features and productivity-enhancing software utilities that will revolutionise the way you use your computer.

DESCRIPTION	RAM	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Millennium G400 AGP Single Head (OEM)	16MB	69-31-50	69.99	72.99	72.26	71.54	NEW
Millennium G400 AGP Dual Head (OEM)	16MB	64-77-43	85.99	89.99	89.09	88.20	
Millennium G400 AGP Single Head (OEM)	32MB	69-34-71	89.99	95.99	95.03	94.08	NEW
Millennium G400 AGP Dual Head (Retail)	32MB	12-10-16	125.99	➧	129.99	128.69	✂
Millennium G400 AGP Max Dual Head (Retail)	32MB	38-29-19	142.99	➧	149.99	148.49	
Millennium G400-TV Marvel AGP (Retail)	16MB	12-10-88	189.99	➧	199.99	197.99	

OTHER ITEMS
FOR MOTHERBOARDS SEE PAGES 212–213
FOR PROCESSORS SEE PAGES 206–211

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

GRAPHICS CARDS

ELSA



64-22-68

Using the RIVA TNT2 chipset, the **Erazor III** delivers 250 mega-pixels-per-second (MPPS) fill rate, over 8 million polygons per second and 8-tap ansiotropic filtering. Featuring compatibility for AGP 4x, the Erazor III supports full sideband addressing with peak performance of 900MB/sec while the 128-bit graphics engine is optimised for single cycle operation into the 128-bit memory interface supporting over 2GB/sec throughput.

ELSA ERAZOR™ X – Grand Prix 3D for your PC has real-time 3D performance previously reserved for professional film-production workstations.
The 3D machine for your PC!

- High-definition picture – Up to 2048 × 1536 pixels, over 16 million colours and refresh rates of 200Hz.
- 32MB graphics memory.
- Supports the 3D shutter glasses, 3D REVELATOR.

ELSA ERAZOR X² – Lightening fast board for hardcore gamers
The ELSA ERAZOR X² is based on nVIDIA's graphics processor GeForce 256 and featuring superfast Double Data Rate RAM. The integrated transform and lighting engine (T&L) and 4 parallel rendering pipelines equip the ERAZOR X² with a level of real-time 3D performance found up to now only in professional film production workstations.

- Video output port for playing videos and DVD films on TV or VCR.
- Extensive package with the current top 3D game Drakan, Corel Select 7, ELSA MainActor – video editing software, ELSAmovie.
- Supports 3D REVELATOR shutter glasses.

3D REVELATOR Shutter Glasses from ELSA provide nearly every 3D game using Direct3D acceleration with a realistic spatial image through the use of two small displays built into the glasses to give the impression of true 3D.

ELSA GLADIAC™ geFORCE 2GTS
The Hyper-Reality Graphics

- Powered by NVIDIA GeForce2 GTS
- Ultra fast 32MB or 64MB Double Data Rate RAM guarantees rapid data processing
- Enhanced visual display.
- Optional upgrade to Video-In/Out
- Compatible with Windows® 95, Windows® 98, Windows® NT 4.0 (i386), Windows® 2000 and Linux
- 6-year ELSA warranty

MPower offers low cost PCI and AGP graphics cards offering both entry level pricing and the latest graphics acceleration. The PCI 8MB version runs on the popular S3 Savage Chipset, while the 8MB AGP is S3 Trip Chipset.

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
✂	ELSA Erazor III Graphics card 32MB AGP (with TV-out)	64-94-83	125.99	➧	129.99	128.69
✂	ELSA Erazor III Graphics card 32MB AGP (no TV-out)	64-17-24	85.99	89.99	89.09	88.20
	ELSA Erazor III LT 32MB AGP	64-31-34	55.99	58.99	58.40	57.82
✂	ELSA Erazor X 32MB GeForce 256GE	52-99-85	129.50	➧	132.99	131.66
	ELSA Erazor X2-32MB GeForce 256GPU	64-18-62	165.99	➧	179.89	179.89
NEW	ELSA Gladiac GeForce 2 GTS 32MB	69-53-93	233.99	➧	239.99	237.59
NEW	ELSA Gladiac GeForce 2 GTS 64MB	69-95-10	CHECK ONLINE	➧	➧	FREE Call
NEW	ELSA SVAS Video in/video out module for Gladiac	69-70-50	CHECK ONLINE	➧	➧	FREE Call
	ELSA Revelator 3D glasses for use with Victory II, Erazor II & III, Winner II	64-22-68	42.05	43.99	43.55	43.11
✂	MPower 8MB PCI Card	53-77-78	41.09	42.99	42.56	42.13
✂	MPower 8MB AGP Card	64-18-66	33.44	34.99	34.64	34.29
	MPower 16MB PCI Card	64-77-80	57.34	59.99	59.39	58.80

OTHER ITEMS
FOR MOTHERBOARDS SEE PAGES 212–213
FOR PROCESSORS SEE PAGES 206–211
FOR GUIDE TO MEMORY SEE PAGE 190

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

GRAPHICS CARDS — 3dfx

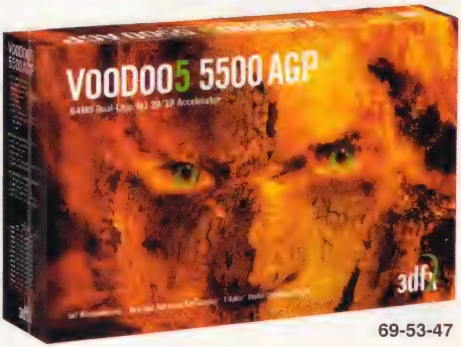
3dfx is the established name in PC gaming and their latest Voodoo cards once again set the standard of hardware acceleration providing both the most powerful and compatible graphics cards available. Using the Voodoo3, 4 or 5 chipset, with up to 64MB memory, can achieve resolutions up to 2048 × 1536 and they provide both 2D and 3D acceleration.



69-17-62

FEATURES:

- Fully-integrated 128bit 2D/3D/Video.
- Accelerator.
- 32MB of Graphics Memory.
- 32-bit colour rendering.
- AGP 4x and PCI local bus support.
- 8-bit Palletized Textures.
- 350MHz RAMDAC.
- DVD hardware assist: planar to packed-pixel



69-53-47

FEATURES:

- 667–733 Megapixels/second.
- 64MB of Graphics Memory.
- 32-bit colour rendering.
- Real-time Full-Scene HW Anti-Aliasing.
- Exclusive T-Buffer Digital Cinematic Effects.
- FXT1 and DirectX Texture Compression.
- 8-bit Palletized Textures.
- Fully integrated 128-bit 2D/3D/Video Accelerator.

Model	Voodoo3 2000	Voodoo3 3000	Voodoo3 3500	Voodoo3 4500	Voodoo3 5500
RAMDAC	300MHz	350MHz			
Memory	16MB SGRAM	16MB		32MB	64MB
Interface	PCI or AGP	AGP		PCI/AGP	AGP
Max. Resolution		2048 × 1536			
Fill Rate per sec.	143 megapixels	166 megapixels	366 megapixels	333–367 megapixels	667+ megapixels
Warranty	10 year warranty				

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Voodoo3 2000 Graphics Card 16MB PCI	64-17-64	59.99	64.99	64.34	63.70	
Voodoo3 2000 Graphics Card 16MB AGP	64-30-94	59.99	64.99	64.34	63.70	
Voodoo3 3000 Graphics Card 16MB AGP	64-53-51	87.99	92.99	92.06	91.14	
Voodoo3 3000 Graphics Card 16MB PCI	69-18-08	88.99	92.99	92.06	91.14	NEW
Voodoo3 3500 Graphics Card 16MB AGP **(Special Offer)**	64-31-04	99.99	◗	129.99	128.69	
Voodoo4 4500 Graphics Card 32MB PCI	69-98-36	124.99	◗	129.99	128.69	
Voodoo4 4500 Graphics Card 32MB AGP	69-17-62	122.99	◗	129.99	128.69	
Voodoo5 5000 Graphics Card 32MB AGP	69-30-94	198.88	◗	205.99	203.93	
Voodoo5 5500 Graphics Card 64MB AGP	69-53-47	199.99	◗	215.99	213.83	

OTHER ITEMS

FOR PROCESSORS AND UPGRADES SEE PAGES 206–211
FOR MEMORY UPGRADES SEE PAGES 187–205

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

GRAPHICS CARD — ATI



True colour 3D graphics and DVD acceleration for high-end graphics applications and games. Enhance your PC video and graphics capabilities with **Rage Fury Pro** for incredible 3D performance.

- 32MB of graphics memory and Rage 128 Pro graphics technology for massive 3D textures.
- Texture compression to display the huge textures of today's 3D games in photo realistic detail.
- 300MHz DAC for even higher refresh rates at higher resolutions.
- Full acceleration of Open GL ICD, Direct 3D and Direct X.



Rage Fury Maxx has a whopping 64MB of memory and delivers 3D game frame rates at extraordinary levels. It also processes massive graphics textures in today's most graphics intensive 3D games.

- Rage 128 Pro Graphics accelerators.
- Full OpenGL ICD, Direct 3D and DirectX support.
- High resolution, true colour (32-bit) quality graphics.
- 64MB of local texture memory.
- Powered by dual ATI Rage 128 Pro graphics engines using ATI's Maxx technology for breathtaking 3D speed.



Xpert 2000, the powerful and affordable 32MB graphics and DVD board. The advanced 3D architecture guarantees greater experience of detailed 3D graphics action and cool effects for incredible realism.

- ATI Rage 128 graphics chip with 128 bit graphics engine and 64 bit memory interface.
- 16 or 32MB graphics memory for demanding 3D applications.
- 32 bit high speed true colour rendering.
- Full acceleration of DirectX, Direct 3D and open GL applications.



All-in-Wonder, the all-in-one multimedia TV, video and graphics solution from ATI! Create your videos in professional quality.

- All-in-Wonder 128 is the latest in an award-winning series of products. Stunning fast 3D graphics.
- DVD video playback. Still and motion video capture, including MPEG-2.
- Instant Replay.
- Intelligent TV-Tuner.
- Digital VCR with MPEG-2 video compression. Video-out. One easy to install card does it all!

ALL PRODUCTS COME IN WHITE BOX PACKAGING

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	Xpert 98 Pro Graphics Card 8MB AGP	69-94-77	24.99	27.99	27.71	27.43
	Xpert 2000 Graphics Card 16MB AGP (without TV out)	69-17-21	41.99	45.99	45.53	45.07
	Xpert 2000 Graphics Car 32MB AGP (without TV out)	64-22-62	55.99	59.99	59.39	58.80
	Rage Fury Pro 32MB AGP (no TV out)	69-22-63	85.99	89.99	89.09	88.20
	Rage Fury Pro 32MB AGP (Video In/Video Out)	69-49-48	75.99	79.99	79.19	78.40
	All in Wonder 128 32MB AGP (with TV out)	69-70-21	114.99	◗	119.99	118.79
NEW	All in Wonder 128 32MB PCI (with TV out)	69-17-85	119.99	◗	125.99	124.73
NEW	Rage Fury Maxx 64MB AGP	69-17-95	129.99	◗	139.99	138.59

OTHER ITEMS
FOR PROCESSOR UPGRADES SEE PAGES 206–211
FOR MEMORY UPGRADES SEE PAGES 190

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

GRAPHICS CARDS/MP3 PLAYER

DIAMOND

Diamond Viper II:
Add maximum realism to your gaming experience with Viper III! With higher frame rates and cutting-edge 3D features such as the industry's first QuadTexture™ engine, hardware integrated S3TC™ Texture Compression and accelerates the newest, coolest software with complete support for OpenGL® and Direct 3D®.

With 32MB of high-speed memory, AGP 4X support and a large support of S3TC software titles.

- Unprecedented DVD performance with cinema-quality full screen viewing.
- TV-Output turns your PC & TV into a deluxe home theatre system for games and movies.
- S3TL™ Transformation & Lighting.
- 32-bit 2-buffer.



Diamond Rio
From Diamond Multimedia comes the Rio portable media player, the first device to provide MP3 encoded sound to be played independent of a PC.

- Palm size for easy portability.
- Supports MP3, the most popular music format on the Internet.
- 64MB internal memory expandable to 96MB with removable flash cards.
- Stores up to two hours of digital-quality music and up to 32 hours of spoken audio programs.
- Skip and flutter resistant – no moving parts.
- Download music from the Internet or create your own audio selection on the PC or Mac for playback on the Rio.



Stealth III S540:

- S3 Savage4 graphics controller.
- 16MB or 32 SDRAM.
- Unique S3TC hardware texture compression is capable of storing 240MB in 64MB of system memory and support for textures up to 2048 × 2048 produce high quality resolutions and photo-realistic images.
- 32-bit rendering and a maximum resolution of 1920 × 1440.
- Complete DirectX and OpenGL ICD support.

SpeedStar A200
The SpeedStar A200 is a low-cost 'basic' and 'value' system for the home and used primarily for Internet, e-mail and Office applications, as well as casual gaming and entertainment.

- S3 Savage4 Pro, 128-bit 2D/3D accelerator.
- Accelerated Graphics Port (AGP), Rev. 1.0.
- 8MB SDRAM local frame buffer.
- 300MHz RAMDAC.
- ATX Form Factor.
- TrueColor (32-bits per pixel) up to 1280 × 1024.
- Vertical Refresh: max 200MHz.

DESCRIPTION	RAM	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Diamond SpeedStar A200 AGP	8MB SDRAM	38-29-75	27.99	29.99	29.69	29.39	
Diamond Stealth III S540 AGP	16MB SDRAM	64-94-77	37.99	39.99	39.59	39.19	✂
Diamond Stealth III S540 AGP	32MB SDRAM	53-77-43	49.99	52.99	52.46	51.94	
Diamond Viper II – Retail box	32MB SDRAM	36-99-90	109.99	◆	119.99	118.79	
Diamond Rio PMP 500 (Grey)	64MB	64-18-15	159.99	◆	169.95	168.25	
Diamond Rio PMP 500 (Purple)	64MB	69-18-01	164.99	◆	169.99	168.29	NEW
Diamond Rio Leather Carry Case for PMP 500 (Black)	—	69-31-27	18.99	21.99	21.33	20.69	NEW
Diamond Rio Car Cassette adaptor for Rio 300/500	—	69-53-83	14.99	16.99	16.48	15.99	NEW

OTHER ITEMS
FOR RAM UPGRADES SEE PAGES 192–205

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

SOUND CARDS — AZTECH



69-17-68

PC audio is no longer about hearing sounds. It's about experiencing it and appreciating the features. With the **Aztech PCI 288-A3D** sound card, you'll be enjoying real, powerful and surrounding sound as never before with PCI Bus interface and 3D positional audio through 2 or 4 speakers.

The **Aztech PCI 368-DSP** revolutionizes your PC audio experience. The sound does not just surround you. It engulfs you. With the Qsound Multi-Speaker System and Qinteractive 3D, the PCI 368DSP transforms any ordinary stereo sources into a 4-channel audio output with dramatically enhanced realism.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Aztech PCI 288 A3D Sound Card	53-00-55	24.99	26.95	26.68	26.41
Aztech PCI 368 DSP Sound Card	69-17-68	25.99	28.99	28.70	28.41

SOUND AND GRAPHIC CARDS — CREATIVE

For the cost effective audio solution on your PC, the **Sound Blaster 16 PCI** is the entry level Sound Blaster in the range. It has all the basic features you need from a sound card.
The **Sound Blaster Live! Platinum** provides the combination of digital-quality audio, fully featured software bundle and connectivity to external devices from the front of your PC.
The **Sound Blaster Live! Player 1024** is a powerful audio system designed to grow with your needs. Delivering the same unparalled quality and sound performance as the Sound Blaster Live! Platinum.

The **3D Blaster GeForce Pro** is an incredible graphics card. As well as featuring the world's first Graphics Processing Unit (GPU), its memory subsystem incorporates the very latest Double Data Rate (DDR) memory technology and at the heart of the 3D Blaster GeForce is the GeForce 256 chip from NVIDIA.
The **RIVA TNT2 Vanta** is a high quality 2D/3D/video accelerator that offers superb image detail and maximum monitor performance. It is well suited for a variety of applications ranging from everyday desktop use to CAD to gaming and entertainment..
The **3D Blaster TNT2 M64**, a must for anyone who wants to integrate a powerful 128-bit graphics engine. Based on the RIVA TNT2 processor from NVIDIA, this board delivers stunning visual quality and superb performance with its 32 bit true-colour engine.



52-98-81

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	Sound Blaster 16 PCI Sound Card	64-70-24	22.99	23.99	23.75	23.51
	Sound Blaster Live! Platinum Sound Card	12-10-50	125.99	◗	129.95	128.65
	Sound Blaster Live! Player 1024 Sound Card	52-98-81	49.99	52.99	52.46	51.94
	3D Blaster GeForce 256 Annihilator Pro Graphics Card	69-30-87	164.99	◗	169.99	168.29
NEW	3D Blaster TNT2 Vanta PCI 32MB Graphics Card	69-31-34	59.99	65.99	65.33	64.68
NEW	3D Blaster RIVA TNT2 M64 Graphics Card	69-53-91	73.99	77.99	77.21	76.44

OTHER ITEMS
FOR GRAPHICS CARDS SEE PAGES 232–235
FOR MODEMS SEE PAGES 715–744

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MULTIMEDIA PRODUCTS

Hauppauge

The **Hauppauge Win/TV Cinema Pro (ISA) and the Win/TV PCI Plug and Play cards** provide NICAM stereo FM, 125 channel television and professional teletext on your PC. The cards are simple to install under Windows 95 and allow you to have a TV Window on your desktop while running other Windows applications. The Win/TV boards feature a professional teletext application as standard, which allows you to save, print, copy and DDE any teletext information directly to your PC. This product has extended the features of the PCI-based product line. The TV functionality of the Win TV PCI has been combined with an FM stereo radio tuner which offers channel search, scanning, fine-tuning and save pre-set channels into the memory and listen to Stereo FM broadcasts while working with other applications.

Win TV Go enables you to watch TV in-a-window from icon size to full screen, surf 16 channels simultaneously.

Win TV USB plugs directly into the USB port on your PC or Laptop for easy installation.

The **Primio FM** card is the entry level card, it allows you to control the application via the supplied remote control which gives you a resizable TV image on your PC's monitor and the functions of Teletext using DDE technology, frame and video capture to help present your favourite presentations and video conferencing using NetMeeting to communicate with your friends or colleagues (optional camera required). For TV on your PC, the Primio is ideal and is supported by Hauppauge's ongoing software development.

The **WinTV CCD Cam** combines all the features of the Primio together with a high quality colour CCD Camera giving you the total versatility of video conferencing. You can use the WinTV CCD bundle for security, to guard stockrooms, baby room, etc.

The **WinTV Theater** is the new TV card of the Hauppauge family. It is easy to set up under Windows 95/98/NT 4.0! The Win TV Theater has 5 speaker output, but if you don't have 5 speakers (yet!), the built-in Virtual Dolby system creates a surround effect from just 2 or 3 speakers.

WinTV Theater digitises video using high quality 4:2:2 video sampling. The digitised TV image is sent directly into the memory of your PC's VGA card without creating overhead for the CPU, so you can work on applications while simultaneously watching in a resizeable window.



DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Hauppauge WinTV FM Primio	69-17-98	49.11	50.99	50.48	49.98	NEW
Hauppauge WinTV PCI FM Nicam Stereo	69-31-24	64.99	67.99	67.31	66.64	NEW
Hauppauge WinTV Go	52-31-72	32.26	33.50	33.17	32.83	
Hauppauge WinTV USB	77-83-13	53.99	56.95	56.38	55.82	
Hauppauge WinTV CCD Cam	55-80-19	109.99	◆	115.99	115.29	
Hauppauge WinTV Theater (Dolby Pro Logic)	52-95-78	78.99	82.95	82.12	81.30	

OTHER ITEMS

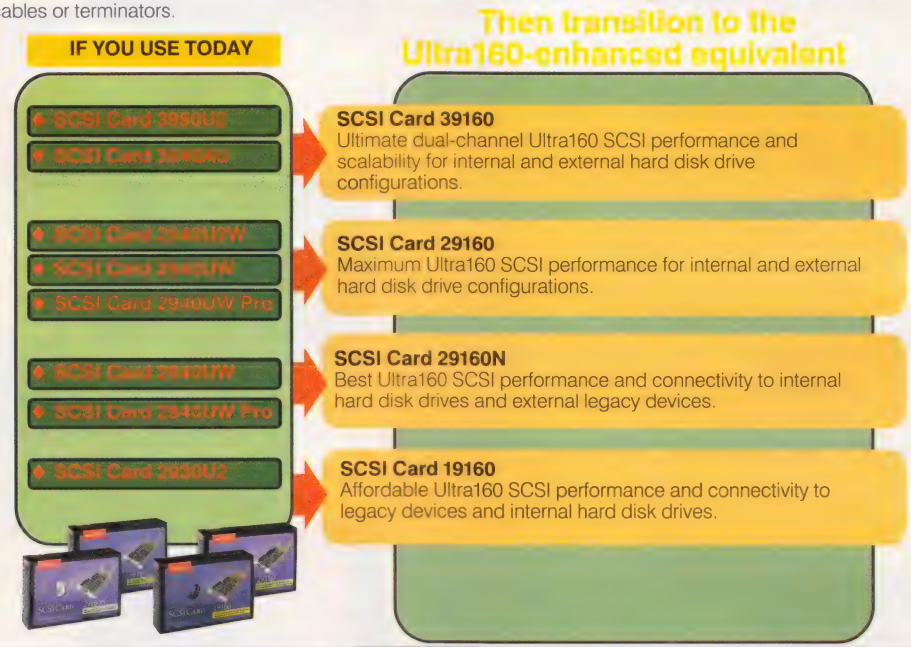
FOR GUIDE TO STORAGE SEE PAGE 214
FOR GUIDE TO DISK DRIVES SEE PAGE 215

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

SCSI CARDS

adaptec

Ultra160 SCSI doubles the speed of Ultra2, the current worldwide SCSI standard. The new cards from **Adaptec** are similarly priced compared to their Ultra2 counterparts, and are ideal for the transaction-heavy environments generated by emerging e-business applications as well as traditional storage applications.
At 160MB/sec performance, Adaptec's Ultra 160SCSI cards boast data transfer rates double that of Ultra2 SCSI. Smooth migration to the new SCSI Card 39160. 29160, 29160N and 19160 is assured because can continue to use legacy SCSI devices along with newer Ultra160 devices, with each device performing at its maximum speed.
The Ultra160 SCSI cards use the same accessories as Ultra2 SCSI, eliminating the need for new LVD SCSI cables or terminators.



Model	ASC19160/ASC29160N	ASC29160	AHA39160
Internal Connectors	One 68-pin for LVD SCSI	One 68-pin for LVD SCSI	Two 68-pin for LVD SCSI
	One 50-pin for Ultra SCSI	One 68-pin for Ultra Wide SCSI	One 50-pin for Ultra SCSI
External Connectors	One 50-pin for Ultra SCSI	One 68-pin for LVD SCSI	Two VHDCI 68-pin for LVD SCSI

Internal cables included.

DESCRIPTION	MODEL	BUS TYPE	INTERFACE	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Fast SCSI 2, Ultra UW, U2, U160	ASC 19160 Kit	32 bit PCI	1 SCSI	64-54-27	164.99	➧	169.99	168.29
Fast SCSI 2, Ultra UW, U2, U160	ASC 29160N Kit	32 bit PCI	1 SCSI	64-95-35	198.88	➧	205.99	203.93
Fast SCSI 2, Ultra UW, U2, U160	ASC 29160 Kit	64 bit PCI	1 SCSI	64-31-85	209.99	➧	219.99	217.79
Fast SCSI 2, Ultra UW, U2, U160	AHA 39160 Kit	64 bit PCI	2 SCSI	64-18-65	239.99	➧	245.99	243.53

OTHER ITEMS FOR NETWORKING INDEX SEE PAGES 638, 639

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

SCSI PORTABLE ADAPTORS

SCSI is also a perfect complement for **portable computers.** With SCSI, the portable computer can have access to the same sophisticated peripherals as desktop users. These portable host adaptors are lightweight, yet rugged enough to survive in the challenging portable environment.

SCSI is also a perfect compliment for portable computers. It allows:

1) Quick connectivity to high performance SCSI peripherals through PC card (PCMCIA) slots and parallel ports.
2) File transportability between desktop and portable systems with simple SCSI connections to removable and optical storage devices.
3) Increased storage capacity, as needed for large files and applications.
4) Includes Adaptec EZ-SCSI software for quick and easy management of SCSI peripherals.

Host Adaptor	PC Bus Type	Device Support	External connector	Plug'n'Play	For use with
APA 1350	Parallel	Up to 7 (plus printer)	50 pin high density	No	Desktop, Notebook
APA 1460B	PCMCIA	Up to 7	50 pin low and high density	Yes*	Notebook
APA1480A kit	Card Bus	Up to7	50 pin low and high density	Yes*	Notebook

***only under Windows 95.**

DESCRIPTION	DATA TRANSFER METHOD	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
APA 1350 MiniSCSI Adaptor	Programmed I/O	62-91-44	42.99	44.99	44.54	44.09
APA 1460B PCMCIA SlimSCSI kit	Programmed I/O	99-95-13	74.99	77.99	77.21	76.44
APA 1480A SlimSCSI kit	Bus Master DMA	68-60-77	109.99	◗	115.99	114.83

SCSI ADAPTORS

Adaptec provides basic connection host adaptors that are innovative, economical and expandable. Designed for single-user and small office environments with all the advantages of SCSI device connectivity, compatibility and seamless installation in one solution.

Benefits for basic connection SCSI users*:

1) Affordable SCSI connectivity and compatibilty.
2) Adaptec EZ-SCSI or EZ-SCSI Lite software, the all-in-one solution for quick and easy management of peripherals (AVA-2904CD ships with Easy CD Creator, standard edition).

Benefits for high performance SCSI users:**

1) Bus mastering (data transfer methodology allowing the system to off-load I/O processing to the host adaptor) frees the system's CPU, accelerating application access and information handling.
2) Enhanced performance in multitasking environments by managing multiple requests from peripherals, increasing system output.
3) Adaptec EZ-SCSI software included for an all-in-one solution.

Host Adaptor	PC Bus Type	Device Support	External connector	BIOS Support	For use with
AVA 1505*	ISA	Up to 7	25 pin DB-25	No	Desktop
AHA 2904CD*	PCI	Up to 7	50 pin High Density	No	Desktop
AHA 2930U*	PCI	Up to 7	50 pin High Density	Yes	Desktop
AHA 2940AU**	PCI	Up to 7	50 pin High Density	Yes	Desktop, Server
AHA 2944UW**	PCA	Up to 15	68 pin High Density	Yes	Server

* Standard connection host adaptor kits.
** High performance host adaptor kits.

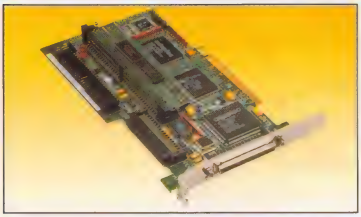
DESCRIPTION	TYPE	INTERFACE PROTOCOL	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
AVA 1505	ISA SCSI-2 kit	Programmed I/O	85-64-36	29.99	31.95	31.63	31.31
AVA 2904CD	PCI	Bus Master DMA	64-27-43	28.99	29.95	29.65	29.35
AHA 2930U	PCI SCSI kit	Bus Master DMA	52-98-27	62.99	65.99	65.33	64.68
AHA 2940AU	PCI Ultra SCSI kit	Bus Master DMA	78-86-52	144.99	◗	149.99	148.49

OTHER ITEMS
FOR GRAPHICS CARDS SEE PAGES 232–235
FOR SCSI CABLES SEE PAGES 576–579, 581

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

ULTRA WIDE SCSI RAID ADAPTORS

adaptec



The **new AAA-UDMA** is a PCI-to-UDMA/66 RAID solution for small network servers with up to 4 UDMA drives. The **AAA Ultra2 SCSI RAID card family** protects your servers and workstations against unscheduled downtime and optimises system performance. Featuring a powerful RAID coprocessor and GUI-based RAID management software, these cards are easy to install and use and support advanced RAID features, including bootable arrays, hot-swap drives, extended parity protection, dynamic sector repairing to name a few.

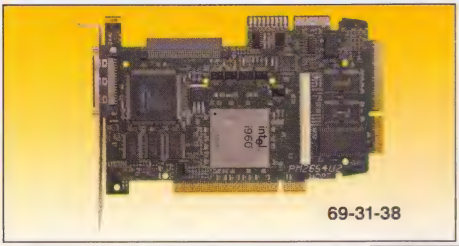
5 YEAR WARRANTY

System requirements: 90MHz Pentium or higher PCI motherboard with PCI-Bridge support, more than 64MB system memory and 2 or more SCSI hard drives. **OS support:** Windows NT Workstation/Server 4.0, Novell NetWare 5.0, 4.2 and 4.11 or UnixWare v7.01.
Array support: RAID levels 0, 1, 0/1 and 5. Up to 4 arrays configurable per card. Up to 16 drives per array.

	DESCRIPTION	SCSI CHANNELS	NO. DEVICES	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	AAA-131U2 kit	1	Up to 15	69-94-76	289.99	▶	299.99	296.99
	AAA-133U2 kit	3	Up to 15	69-17-20	456.99	▶	469.99	465.29
NEW	AAA-UDMA Raid Card	—	—	69-18-09	260.63	▶	269.95	267.25

SCSI RAID CONTROLLERS

adaptec DPT



69-31-38

Adaptec/DPT SmartRaid Decade and SmartRaid Century Raid Controllers

- Intel i960 RD 40 MIPS (Century) or Intel i960 31 MIPS (Decade) processors.
- Fully I_2O® compliant.
- Controls up to 15 SCSI devices per channel.
- Controls SCSI-1, SCSI-2 or SCSI-3 devices.
- Internal and External 68-pin SCSI connectors.
- Expansion modules add 1 or 2 additional SCSI channels.

Model	SmartRaid Decade (PM1564U3)	SmartRaid Century (PM2654U2-R-16M)
SCSI Interface	Ultra 160 SCSI, SPI-3, SCSI-3	Ultra2, SCSI-3
Max. SCSI Transfer Rate	160MB/s	80MB/s
SCSI Bus	16-bit	
Number of SCSI Buses	1, 2, 3 or 4	1 (upgradable to 2)
Max. No. of SCSI Devices	15 per channel (max. of 60 total)	15 (upgradable to 45)
PCI Host Interfaces	32-bit PCI 2.2	32-bit PCI 2.1
Max. PCI Transfer Rate	132MB/s	
SCSI Controller	68-pin very high density cable	

See www.action.com for Adaptec/DPT Modules

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	SmartRaid Decade Intelligent Ultra 160 SCSI Raid Controller	69-31-38	331.99	▶	339.95	336.55
NEW	SmartRaid Century Ultra2 SCSI Raid Controller	69-53-95	499.99	▶	515.99	510.83

OTHER ITEMS
FOR NOTEBOOK PCs & ACCESSORIES SEE PAGES 67–111
FOR PRINTERS SEE PAGES 326–459
FOR PSION ORGANISERS SEE PAGES 117–121

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PC FUNCTION CARDS

BOCA

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Boca AT55 I/O card (one parallel/two serial ports)	99-60-04	29.50	32.99	32.00	31.04	
Boca Turbo PCI Parallel port I/O card	69-17-83	22.23	24.95	24.20	23.48	NEW

POWER SUPPLY

EXPONENT

The DC-Regulator supplies power directly out of your computer for speakers, modems or other peripherals.

FEATURES:

- **DC-Regulator** can be easily installed onto a free slot in the computer.
- **Power supply cable** to be connected directly to the computer power supply.
- **Output cable** to be connected to the DC-Regulator and the external peripheral (includes 4 connecting plugs to fit different kinds of peripherals).
- **Jumpers** for selecting the desired output voltage, 3-/4.5-/5-/6-/7.5-/9- or 12V.



Output up to 2.2 Ampere

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Exponent DC-Regulator	68-59-99	8.54	9.95	9.55	9.17

OTHER ACCESSORIES

Panasonic CHASE RESEARCH

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Panasonic 3.5" 1.44MB Internal Floppy Disk Drive	17-02-22	18.49	19.99	19.19	18.99
CardPort ISA (2 PCMCIA slots)	80-63-76	124.60	➧	1128.95	127.66
CardPort UNO (1 PCMCIA slot) (ISA BUS)	80-63-83	66.86	69.95	69.25	68.56

fireLINE COMMUNICATIONS

Evergreen

Fuel your fire with high speed data communications between your computer and up to 63 peripherals, products such as digital video camcorders, hard drives, scanners, high resolution printers and digital cameras.

fireLINE PCI Card and fireLINE PCMCIA CardBus

- 3 External and 1 internal IEEE 1394 ports (69-49-68) – 2 external IEEE 1394 ports (69-12-63)
- Transfer speeds of up to 400Mbits/sec (40 times USB)
- Supported by Windows 98SE and Windows 2000
- Supports hot swapping plug n play-daisy chaining up to 63 devices
- One year product warranty
- Ulead VideoStudio SE, version 4.0

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Evergreen fireLINE PCI Bus Card (3 ext. + 1 int IEEE 1394 ports)	69-49-68	95.33	98.99	98.00	97.02	NEW
Evergreen fireLINE PCMCIA Card BUS	69-12-63	113.99	➧	117.99	116.81	NEW

OTHER ITEMS

FOR DESKTOP PCs SEE PAGES 137–152
FOR MOTHERBOARDS SEE PAGES 212, 213
FOR PCMCIA PRODUCT INDEX SEE PAGE 108, 110

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

ISA/PCI FUNCTION CARDS

OYSTER COMPUTERS



Oyster's product lines provide a wide variety of solutions to Multiport Serial and Parallel connections. Async products provide 2 to 256 serial ports solution in a single PC slot. Oyster products support all kinds of popular operating systems available today including Windows 3× 95/98 and NT, SCO UNIX, LINUS etc. All the products are CE approved. The serial connections are ideally suited for the following sample applications.

- Remote Access Service.
- Internet Service.
- Office Automation.
- Multiuser System.
- POS Application.
- Compact PCI Embedded system.
- Process Control.
- Industrial Automation.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
ISA Dual 460K Serial card	62-03-49	23.99	26.99	26.18	25.39
ISA Dual Parallel Port EPP/ECP Bi-Dir	62-03-56	26.50	29.99	29.09	28.22
ISA 4×460K Port Serial card	62-03-63	39.99	44.99	43.64	42.33
ISA 8×460K Port Serial card	62-03-70	89.99	95.99	95.03	94.08
ISA Dual RS232 card	62-03-94	26.50	29.95	29.05	28.18
ISA Quad RS422/485/FIFO card	62-04-28	226.99	◗	235.99	233.63
ISA Dual RS422/485/FIFO card	62-04-04	117.99	◗	122.99	121.76
ISA Single Parallel Port	64-17-17	17.50	19.95	19.35	18.77
ISA 2 Games Ports Card	64-17-58	11.50	13.95	13.39	12.86
PCI 2×Parallel port PnP (83 FIFOs) card	64-07-07	39.99	45.99	44.61	43.27
PCI 2S/1P port W/16C552 (16 FIFOs) card	64-07-14	49.50	55.99	54.31	52.68
PCI 2×RS232 serial port PnP (16 FIFOs) card	64-07-21	39.99	47.99	46.55	45.15
PCI 2×RS232 serial port PnP (32 FIFOs) card	64-07-38	47.99	53.99	52.37	50.80
PCI 4×RS232 serial port PnP (32 FIFOs) card	64-07-45	116.99	◗	127.99	124.15
PCI 8×RS232 serial port PnP (16 FIFOs) card	64-07-52	181.99	◗	188.99	187.10
PCI Single Parallel Port	64-30-87	36.99	41.99	40.73	39.51
PCI Single Serial Port (Hi-Speed)	64-53-45	38.99	43.99	42.67	41.39
PCI Dual 422/485 High Speed Ports	31-35-61	182.99	◗	189.95	188.05
PCI 3 in 1, 4 RS232–422/485	90-52-72	674.99	◗	699.99	692.99
PCI PCMCIA 2×RS232 Port Card	39-61-26	131.99	◗	136.99	135.62
PCI 4× Serial & 2× Parallel Port Card	77-93-65	54.99	61.99	60.13	58.33
RS232 to RS422/485 Converter	86-87-11	56.99	59.95	59.35	58.76
ISA Industrial 4× RS422/485 Card with Auto Data Detection	66-76-22	130.99	◗	135.99	134.63

OTHER ITEMS

FOR DESKTOP PCs & ACCESSORIES SEE PAGES 137–151
FOR FILESERVERS SEE PAGES 168–185

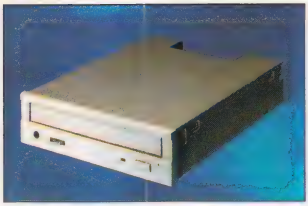
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CD-ROM DRIVES



The **Toshiba CD-ROM Drive** is a high performance, value for money SCSI 40 speed CD-ROM drive available as either an external or internal unit conforming to all major industry standards.

The award-winning XM6401B and XM6602B CD-ROM drives from Toshiba bring leading-edge performance to the computing arena. They can be mounted vertically or horizontally with emergency eject and come with a year's warranty.



LG Electronics offer a 48 speed EIDE drive with an access time of 75msec and a 128KB buffer, providing fast access times for advanced multimedia playback.

Noise has been reduced with a new design and this drive is also CD-RW disc compatible.



New from **Aopen** are CD-ROM drives offering the durability that power users demand. The digital servomechanism keeps the drive on track even after hours and hours of stress.

Aopen offer models for every speed and budget requirement and drives run flawlessly with every operating system.

Model	Toshiba XM6401B	Toshiba XM6702B	Toshiba VCD6401F	LG CRD-8480B	Aopen CD948E/ CD952E
Speed	40×	48×	40×	48×	48×/52×
Capacity	680MB				
Interface	SCSI	EIDE ATAPI	SCSI	EIDE/ATAPI	IDE/ATAPI
Access Time	80msec		135msec	75msec	104msec
Transfer Rate	3.6MB/sec	6MB/sec	1145KB/sec	7200KB/sec	128KB
Buffer	256KB	128KB	256KB	128KB	
Dimensions (W×D×H)	148×208×43mm	146×201×41.5mm	146×190×42mm	146×201×41.5mm	149×196×41.5mm
Weight	0.9kg		1kg	0.95kg	0.9kg
Warranty	12 months return-to-base				

N.B. Samsung Dimensions arde 149×42.5×200mm.

DESCRIPTION	INTERFACE	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Toshiba XM6401B (40×) (**Internal**)	SCSI	64-22-66	62.99	65.99	65.33	64.68	✂
Toshiba XM6702B (48×) (**Internal**)	IDE/ATAPI	69-15-20	34.99	36.99	36.62	36.25	
Toshiba VCD6401F (40×) (**External**)	SCSI	52-99-08	149.99	◗	154.95	153.40	
Samsung SC148 (48×) (**Internal**)	EIDE/ATAPI	69-53-94	24.88	25.99	25.73	25.47	NEW
Samsung SC152 (52×) (**Internal**)	EIDE/ATAPI	69-95-11	29.99	35.99	34.91	33.86	NEW
LG Electronics (48×) **(Internal)**	EIDE ATAPI	52-98-22	34.99	36.99	36.62	36.25	
Aopen CD948E (48x) **(Internal)**	IDE/ATAPI	69-17-76	34.99	36.99	36.62	36.25	
Aopen CD952E (52x) **(Internal)**	IDE/ATAPI	69-31-06	37.99	39.99	39.59	39.19	
Teac Bare CD-ROM Drive (32×) **(Internal)**	SCSI	69-17-48	55.99	59.99	59.39	58.80	NEW

OTHER ITEMS

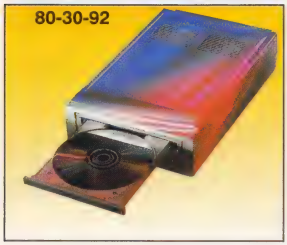
FOR GUIDE TO STORAGE SEE PAGE 214

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

CD-WRITERS/RE-WRITERS

AMACOM MITSUMI HEWLETT PACKARD



The **Amacom EZCD-RW** can be connected to any PC or notebook via PCMCIA or Parallel Port, making it the ideal solution for sharing among numerous PCs.
Create your own data CDs for distributing and exchanging data, software and multimedia files between friends and colleagues. Using Adaptec's Direct CD software you can drag and drop files to CD with as much ease as using your floppy disk drive.

KEY FEATURES:

- Portable parallel port or PCMCIA CD-RW drive.
- High performance and lightweight.
- Supports EPP, bi-directional, uni-directional, ECP and SPP parallel ports (parallel model).
- Type II or III PCMCIA slot (PCMCIA model).
- Pass through printer port for concurrent printing (parallel model).
- Supplied with Adaptec Easy CD Creator, Direct CD, 5 blank CD-R discs and 1 blank CD-RW Disc.
- Supports Windows 95, Windows 98 and Windows NT.



The **Amacom Baby CD-RW** is a lightweight, ultra slim portable PCMCIA CD re-writer that is ideal for the laptop computer user who needs to create or access CDs on the move.
Supplied with Adaptec Easy CD Creator, Direct CD, 1 blank CD-R Disc and 1 blank CD-RW Disc.



The **Mitsumi CR-4804TE-R** CD-RW internal drive offers a highly reliable 4×write speed, 4x rewrite speed with an 24x read speed.

FEATURES:

- Ideally suited for writing and storing massive amounts of data, up to 650MB per disk.
- Write and read in a large range of formats including multi-session Photo CD and CD-DA.

The **Mitsumi CR-4804TU** USB external CD-RW drive is the best choice for writing, updating and rewriting CDs. With it's fast read (24×), write (4×) and rewrite (4×) speed and large buffer memory, this drive will provide reliable and consistent recordings. Set-up and sharing is made easy with it's USB interface.

The **M820e** from **Hewlett-Packard** is a lightweight, portable PCMCIA CD Re-writer. Ideal for professionals who create, archive, transport, share or distribute multi-Megabyte files. It particularly suits those who have different work locations or who need to share the resource with associates.



DESCRIPTION	INTERFACE	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Amacom EZCD 4×4×24× (**External**)	Parallel	80-30-92	213.04	➧	219.00	216.81
Amacom Baby CD PCMCIA 24×	—	52-95-18	106.96	➧	109.95	108.85
Mitsumi CR 4804TE-R (**Internal**)	EIDE	53-77-61	109.87	➧	112.95	111.82
Mitsumi CR-4804TU (**External**)	USB	77-93-67	179.91	➧	184.95	183.10
Hewlett-Packard M820e PCMCIA CD Re-Writer	—	90-52-03	236.33	➧	242.95	240.52

OTHER ITEMS
FOR INTERNAL CD-ROM DRIVES SEE PAGE 243
FOR CD-ROM STORAGE SEE PAGES 526–529

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

INDEX BY PRODUCT TYPE & MANUFACTURER

AIT Drives 265
Sony

CD Duplicator 258
Cedar

CD-Recorders 250-251, 253-254
Amacom, LG Electronics, MicroSolutions, Sony, Yamaha

CD-Rewriters 249-255
Amacom, Computer Connections, Hewlett-Packard, LG Electronics, MicroSolutions, Sony, Yamaha

CD-ROM Drives 252, 255
Amacom, Blue Disc, Computer Connections

CD-Servers 259-262
3Com, Axis, JVC, Procom Technology

DDS-3 Autoloader 269
Hewlett-Packard

Digital Camera Accessories 342
Kodak, Olympus, Sony, Targus

Digital Camera Memory 343
Samsung Electronics

Digital Cameras 330, 332-339
Canon, Casio, Epson, Hewlett-Packard, Kodak, Nikon, Olympus, Sanyo, Sony

Digital Image Printers 334
Olympus

Digital Internet Camara 341
Sharp

Digital Photo-printing solutions 338
Epson

Digital Projectors 365
Kodak

Digital Sender 345
Hewlett-Packard

Digital Speakers 327-328
Microsoft, Philips

Digital Video Cameras 331
Sony

DVD-RAM Drives 256
Panasonic

DVD-ROM Drives 252-253, 256-257
Computer Connections, Hitachi, LG Electronics, Sony

DVD-RW Drives 257
Hewlett-Packard

DVD-Servers 262
JVC

E-Copier 344
Hewlett-Packard

Film Scanners 346
Canon

Fingerprint Recognition Scanner 289
Keytronic

Floppy Drives – External 254
MicroSolutions

Graphics Tablets 288
Wacom

Guide to – Data Storage 248

Guide to – Digital Cameras 329

Guide to – LCD Projectors 352

Hard Drives – External 254
MicroSolutions

Joysticks 279
Microsoft

Keyboard & Mouse Bundles 292
Key Tronic

Keyboards 287, 290, 292-293
Accuratus, Belkin, Key Tronic, Microsoft

LCD Flat Panel Displays 303
LG Electronics, Mitsubishi

LCD Flat Panel Monitors 297-302, 304-305, 309, 313, 315, 317, 321
ADi, Compaq, Eizo, Hewlett-Packard, IBM, Iiyama, LG Electronics, NEC, Philips, Samsung Electronics, Siemens, Silicon Graphics, Sony, Taxan

LCD Projector Accessories 367

LCD Projector Bulbs 366
Compaq

LS120 Drives 277
Imation

Microphones 294
Exponent

Monitors 298-300, 304, 306-322
ADi, Compaq, Eizo, Hewlett-Packard, IBM, Iiyama, LG Electronics, Mitsubishi, NEC, Philips, Samsung Electronics, Siemens, Sony, Taxan, Toshiba

Monitor Safety Regulations 296

Mouse & Keyboard Packages 283
Logitech

Mouse Packages 280-281, 284-285, 287
Belkin, Genius, Logitech, Microsoft

Network Attached Storage 261
Procom Technology

Plasma Display 368-369
Fujitsu, Pioneer, Sony

Projectors Accessories 356
3M

Projectors – LCD 353-365, 370
3M, Epson, InFocus, NEC, Philips, Polaroid, Sanyo, Sharp, Silver Suede, Sony

RAID Systems 263
Blue Disc

Remote Control 279
Ruwido

Scanners 347-351
Agfa, Epson, Hewlett-Packard

SmartMedia Cards 343
Samsung Electronics

Speakers 327-328
Microsoft, Philips, Sony, Yamaha

Storage Servers 264
Quantum

Tape Drives – DAT 268-270, 272
Cristie, Hewlett-Packard, Sony

Tape Drives – DLT 266, 267, 272
Cristie, Hewlett-Packard, Quantum

Tape Drives – Removable Media 275-276, 278
Iomega

Tape Drives – Travan 271, 273-274
Cristie, Hewlett-Packard, Seagate

Trackball Devices 286
Genius, Logitech, Toshiba

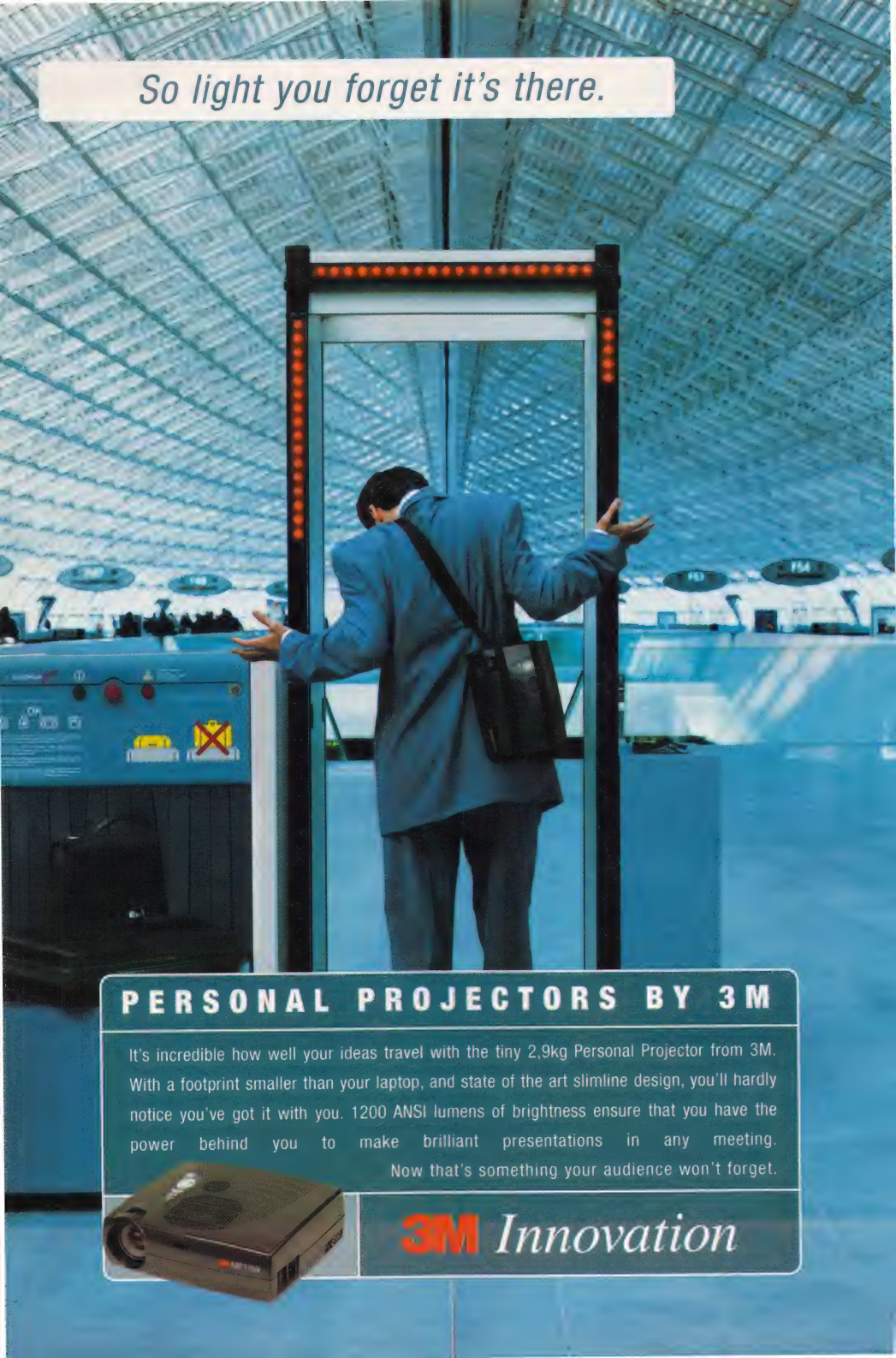
TV Glasses 340
Olympus

Video Conferencing 325
Creative Labs. Inc., Intel, Winnov

Video Conferencing Camera 325-326
Intel, Logitech, Philips

Visual Display Terminals 323
Wyse

So light you forget it's there.



PERSONAL PROJECTORS BY 3M

It's incredible how well your ideas travel with the tiny 2.9kg Personal Projector from 3M. With a footprint smaller than your laptop, and state of the art slimline design, you'll hardly notice you've got it with you. 1200 ANSI lumens of brightness ensure that you have the power behind you to make brilliant presentations in any meeting. Now that's something your audience won't forget.

3M *Innovation*

3M MP 7760 PERSONAL PROJECTOR WITH FREE PALM COMPUTING PLATFORM PALM HANDHELD ORGANISER



3M MP 7760 Personal Projector

- Ultra-compact slimline design - only 2.9kg
- 1200 ANSI Lumens of brightness
- XGA resolution for high definition
- Digital Light Processing™ (DLP™) Technology
- Carl Zeiss Optical System - for top quality images
- On-Screen Colour Manager - to bring your colours to life
- Lens Zoom and Focus - for a crisp sharp image



Model:	3M 7760 Projector
LCD Panel:	Active Matrix TFT
Maximum Resolution:	1024 x 768
Colours:	16.7 million
Brightness:	1200 ANSI Lumen
Video Compatibility:	PAL, NTSC, SECAM
Dimensions (W x D x H):	260 x 215 x 82mm
Weight:	2.9kg
Warranty:	2 years limited, parts and labour

FREE Palm Computing Platform Palm Handheld Organiser

Imagine having your daily schedule, important phone numbers, lists, meeting times and more in one organised place. It's easy and affordable with a new Palm IIIe Organiser. At just 12cm tall and a mere 211g, it can go wherever you go! Say goodbye to your bulky paper planner. The Palm IIIe organiser is an easy to use, pocket sized way to keep track of your busy life.

Key Features:

- Date Book application Access up to 5 years of appointments.
- Memo Pad application Jot down notes, compose e-mail, and more.
- E-Mail storage Download e-mail from your desktop and save it here.
- Expense application Track all your expenses in one convenient place.
- Palm Desktop software Use your Palm applications right at your desktop
- HotSync® cradle Synchronise all your information with your desktop PC at the touch of a button.

3M 7760 Personal Projector with FREE Palm IIIe 06-95-04

For the full range of 3M Projectors, please see pages 356 and 357

Lower prices on-line at action.com

DATA BACKUP SOLUTIONS

No matter what the level of computer usage, any volatile data should be backed up on a daily basis. There is a range of backup devices available to suit almost any budget, but to be effective a backup solution must be easy to use – and relatively quick.

Although a major factor in selecting a backup solution will inevitably be cost, it should be remembered that this cost needs to be set against the value you place on your company's data.

TRAVAN Technology tape platform is based on a unique drive/cartridge interface developed by 3M. It will more than double current capacity in small form-factor mini-cartridges, offering:

- Optimised tape area in a 3.5-inch form factor.
- A 2.36 capacity multiplier with 750 feet of media.
- Tape width increased from .25 inch to .315 inch.
- Drives capable of reading conventional QIC, QIC-Wide and TRAVAN media.

The TRAVAN TR-3 Minicartridge offers a native capacity 1.6GB and conforms to the QIC-3020-MC format standard. Drives designed for the TR-3 cartridge are read and write compatible with the entire QIC-3020 family and read compatible with the QIC-3010 format products.

The TRAVAN TR-4 Minicartridge offers a native capacity of 4GB (8GB compressed) and conforms to the QIC-3095-MC format standards. Drives designed for the TR-4 cartridge are read compatible with QIC-3020 format products.

DIGITAL AUDIO TAPE (DAT)
The physical size of the DAT cartridge (less than 3 inches by 2 inches) mean they are far easier to store and transport and there are far more drives available in half height format and with a 3.5″ form factor. The tape itself is just 4mm wide and is completely housed within the cartridge. 4mm DAT uses helical scan technology resulting in high capacities. The typical capacity of a 60 metre DAT tape is 1.2GB, whilst the 90m tapes can hold 2GB when used with the original DDS-1 drives (see section on standards). Newer DDS-2 drives offer an uncompressed capacity of 4GB on a 90 metre tape. With data compression, however, the maximum capacity of a DDS-2 drive is typically increased to 8GB.

DIGITAL LINEAR TAPE (DLT)
The DLT is a SCSI-based half inch cartridge tape streamer which uses similar recording technology to the QIC drives, but using a cartridge which looks outwardly similar to 8mm cartridges. It uses a longitudinal (full length of tape) recording method, where data is first written from the beginning to the end of the tape. Then, when the end of the tape is reached, the read/write head is repositioned over another track and recording begins from the end toward the beginning of the tape. This reversal of recording continues until all tape tracks are recorded. Each recorded track runs the full length of the tape, with all tracks parallel to each other and of equal length.

OPTICAL DISK
The magneto-optical, as its name suggests, fuses magnetic and optical technologies. The disk's recording layer is magnetic, and the drive uses a magnetic field (called a bias field) to change the polarity of areas of the disk.
Once the appropriate device drivers have been installed (plus patches to the operating system if your DOS can not support partitions greater than 32MB) optical drives function exactly as any other disk on your system, and all normal DOS copy and backup commands will work with them.

LS-120 FLOPPY DRIVES – a form, fit and function replacement for current floppy drives that delivers 80 times the capacity and five times the speed of existing 1.44MB drives. Otherwise known as the a:drive it utilises an industry standard ATAPI IDE interface and is easily integrated into any PC.

After choosing the type of storage to suit your computing needs, it is worth considering where you are going to store your tapes. Bearing in mind that the whole point of an effective back-up regime is that your data should be available should the unthinkable happen. Backed-up tapes should not be stored in the desk next to the file server but in a fire-proof safe and if multiple copies are generated at least one of these kept off-site.

OTHER ITEMS

FOR MAGNETIC MEDIA SEE PAGES 1035–1071
FOR FIRE SAFES SEE PAGES 515–517

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CD-WRITERS/RE-WRITERS

Hewlett-Packard CD-Writers are ideal for individuals through to corporate users who create, archive, retrieve, transport and distribute large files. The CD is now the most widely used mid-capacity medium. These high-performing HP CD-Writers enable users to quickly and easily create CDs, and to use the format for archiving, transporting, sharing and distributing files up to 650MB.

Versatile, all-purpose storage

CD-R and CD-RW media can be formatted and created as simply as a floppy disk. CD-R media created can be read by any CD-ROM or CD player (CD-RW media can only be read by Multi-Read CD-Rom drives).

The complete solution in one box

All the software needed to create standard data and audio CDs. HP's Fast Format lets you format CD-RW media far quicker than ever before. Simple Trax allows you to archive and manage your files — freeing up hard disk space. The Disaster Recovery software means you can back up your data onto CD quickly and safely.

Easy to use and install

Drag and drop files onto the CD or write direct to disc from applications on Win 95, 98 and NT 4.0.* HP Install Assistant means you can be running in 5 minutes.

The **HP Plus 9310i** is a premium performance CD-Recordable/CD-ReWritable drive that delivers speed, innovation and value. With up to 32× read speeds, 10× write and 4× rewrite speeds, making CDs is very fast and easy. As with all HP CD-Writers, the CD can then be shared with over a billion CD and DVD players worldwide using CD-R media. It features all the quality and durability we've come to know and love from CDs.


64-77-56


53-77-55

For further warranty & technical data please visit www.hp.com

Model	8210e	8250i	9210i	9210e	9310i
Interface	USB	EIDE	SCSI-2		EIDE
Capacity	650MB				
Transfer rate	4×4×6×	4×4×24×	8×4×32×		10×4×32×
Data buffer	2MB		4MB		
Contents	Drive, Manual, Cable (EIDE), Power Supply (Ext), 1× CD-R, 1× CD-RW, Labelling Kit				
Software	Adaptec (Easy CD), ACID, MUSIC Creation, HP Format and Disaster Recovery				
Dimensions (W×D×H)	175×280×44mm	146×206×41mm		175×280×60mm	
Warranty	12 months RTB				

***USB will only run on Win 98 & 2000.**

DESCRIPTION	INTERFACE	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
HP CD-Writer Plus 8210e (**External**)	USB	64-77-56	164.00	➧	165.95	165.54	✂
HP CD-Writer Plus 8250i (**Internal**)	EIDE	53-00-67	107.00	➧	109.95	109.29	✂
HP CD-Writer Plus 9210i (**Internal**)	SCSI-2	53-77-55	149.00	➧	152.95	152.03	✂
HP CD-Writer Plus 9210e (**External**)	SCSI-2	31-35-31	205.00	➧	209.95	208.69	✂
HP CD-Writer Plus 9310i (**Internal**)	EIDE	53-27-89	148.00	➧	149.95	149.58	NEW
HP CD-RW Rewritable media (**10 pack**)	—	11-50-50	35.59	39.95	38.75	37.59	

OTHER ITEMS

FOR CD-MEDIA SEE PAGES 1046–1049

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CD-WRITERS/RE-WRITERS

YAMAHA



Product is supplied with: Easy CD Creator4, DirectCD, Media: 1xCD-R, 1xCD-RW, Audio Cable, IDC cable or IDE cable (SCSI ribbon) or IDE cable, Operating Guide and Software Guide.

The **CRW8424E-VK** is an E-IDE (Atapi) 8XWriter, 4X Re-writer and 24X reader. This value kit includes all you'll need to get you started in CD-R/RW.

The **CRW8424S-VK** is a 8x write, 4x Re-write, 24x read SCSI interface internal drive unit and will fit into a standard drive bay in your desktop, midi or tower case. The VK on the end of the product code stands for 'Value Kit'. This value kit contains most of what you need to start using your CD-ReWritable straight away.

The specification of the **CRW8424SX-VK** is exactly the same as the **CRW8424S-VK** internal unit except the unit is in an external case. This makes it ideally suited for use with either PC or Macintosh Computers and their laptop equivalents. The SCSI connectors on them are 50 pin High Density.

NB SCSI Controller Card is not included in Yamaha Value Kit.

Model	CRW8424 E-VK	CRW8424 S-VK	CRW8424 SX-VK
Type	4 × Re-Write/8 × Write/24 × Read		
Interface	Enhanced IDE (E-IDE)/ATAPI	SCSI-3 (Ultra SCSI)	
Transfer rate	3,600KB/sec Read; 600KB/sec Re-Write		
Media	CD-Recordable disc (CD-R) CD-Rewrite (CD-RW)		
Data buffer	4MB		
Package contents	1 × CD-R, 1 × CD-RW, IDE Flat Cable, Audio Cable Mounting Screws, Owner's Manual, Software Guide	1 × CD-R, 1 × CD-RW, SCSI Flat Cable, Audio Cable Mounting Screws, Owner's Manual, Software Guide	1 × CD-R, 1 × CD-RW, Power Cable, Owner's Manual, Software Guide
Dimensions (W × D × H)	146 × 193 × 41mm		170 × 67 × 324mm
Weight	0.95kg		2.6kg
Warranty	12 months return-to-base		





DON'T FORGET YOUR MEDIA

See www.action.com for up to date information and models

DESCRIPTION	INTERFACE	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Yamaha CD-RW CRW8424E-VK (**Internal**)	EIDE	85-67-50	144.95	➧	154.95	153.40
Yamaha CD-RW CRW8424S-VK (**Internal**)	SCSI	38-35-61	154.00	➧	159.95	158.35
Yamaha CD-RW CRW8424SX-VK (**External**)	SCSI	75-58-24	188.00	➧	194.95	193.00
Sony 74 minute CD-RW	—	11-34-61	3.78	3.95	3.91	3.87
TDK 74 minute CD-RW (**5 pack**)	—	06-05-21	17.33	19.45	18.87	18.30
TDK Reflex 74 minute CD-R (**25 Pack**)	—	04-66-48	22.23	24.95	24.20	23.48

OTHER ITEMS FOR CD MEDIA SEE PAGES 1046–1049

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CD RE-WRITERS

SONY

Spressa™ CRX120E/EU-RP
- High performance External CD Re-writable Drive.
- Easy connection via a parallel port.
- Records all popular CD Formats.
- Spress™ Play and Record MP3/ WAV player with integrated CD recording capability.
- 4x CD-R Recording, 4x CD-RW Recording, 24x (Max).

Spressa™ CRX140E/S-RP
- High performance Internal CD Re-writable Drive.
- CD Extreme™ CD creation Software for CD-ROMs, audio CDs, and CD to CD copies.
- abCD™ Drag and Drop Files and Folders to CD-RW Discs, just like to a floppy or hard drive.
- Spressa™ Play and Record MP3/ WAV player with integrated CD recording capability.
- 8x CD-R Recording, 4x CD-RW Recording, 32x (Max).



Spressa™ CRX145
- High performance External CD Re-writable Drive.
- EIDE Interface for easy integration.
- CD Extreme™ CD creation Software for CD-ROMs, audio CDs, and CD to CD copies.
- abCD™ Drag and Drop Files and Folders to CD-RW Discs, just like to a floppy or hard drive.
- Spressa™ Play and Record MP3/WAV player with integrated CD recording capability.
- 10x CD-R Recording, 4x CD-RW Recording, 32x (Max).

FOR MEDIA PLEASE SEE PAGES 1046–1049

Model	CRX120EU-RP	CRX140E-RP	CRX140S-RP	CRX145E-RP	CRX145S-RP
Type	External	Internal			
Speed	4x 4x 24x	8x 4x 32x		10x 4x 32x	
Interface	USB	IDE	SCSI-2	EIDE	SCSI-2
Buffer	2MB	4MB			
Dimensions	190×256×61mm	146×203×44mm		146×203×41mm	
Weight	1.8kg	0.7kg		1kg	
Warranty	12 months parts and labour				

DON'T FORGET YOUR MEDIA

DESCRIPTION	INTERFACE	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Sony CRX-120EU-RP 4×4×24 (**External**)	USB	81-53-44	189.00	➧	194.95	193.00	✂
Sony CRX-140E-RP 8×4×32 (**Internal**)	IDE	64-77-98	147.00	➧	149.95	149.05	✂
Sony CRX-140S-RP 8×4×32 (**Internal**)	SCSI	77-83-35	149.00	➧	154.95	153.40	✂
Sony CRX-145E-RP 10×4×32 (**Internal**)	EIDE	81-30-86	149.00	➧	155.95	154.39	NEW
Sony CRX-145S-RP 10×4×32 (**Internal**)	SCSI-2	81-53-45	169.00	➧	179.95	178.15	NEW
Sony 74 min CD-R (**10 pack**)	—	04-43-27	11.81	13.25	12.85	12.47	

OTHER ITEMS

FOR CD MEDIA SEE PAGES 1046–1049

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CD-RW/CD-ROM DRIVES

COMPUTER CONNECTIONS



Easy connection
Thanks to **Freecoms** advanced technological innovations Freecom drives in the Portable and Traveller Series can be connected to every PC, notebook and (i)Mac/G3. There is no need to open the computer.

Ideal solution
An ideal solution for desktop and mobile users, home users and larger corporate departments who want a cost-effective solution to add storage with the possibility to share and transport data. Freecom Portable products are also ideal for those who are not sure how to install internal drives but require storage or users without free PC slots who are looking for storage upgrades.

Economical
Switching Freecom Cables between different Freecom Portable drives is possible. This creates freedom.

Freecom Cable 1394 FireWire
Ultraspeed 1394 FireWire cable for all drives in the Freecom Portable and Traveller series.

- Extremely compact cable with integrated electronic components.
- Interface: IEEE 1394 FireWire.
- Data transfer rate: up to 400Mb/sec (50MB/s).
- Supports: Win 98/2000.
- Colour: blue transparent which complements the latest trends in PC and MAC design.
- Ultra thin cable for maximum convenience and ease of use.

Model	Freecom CD-RW	Traveller CD-ROM
Type	4x/4x/24x	24x
Interface	Parallel, PCMCIA, USB	
Transfer Rate	1=150KB/sec, Parallel Port: 1.2MB/sec, PCMCIA: 1.9MB/sec	
Access time	200ms write,290ms rewrite	110ms
Media	CD-ROM, CD-R, CD-RW	Multi-read CD-ROM
Contents	Manual, 1x CD-RW & CD-R Marker pen, AC Adaptor	Manual, Battery & AC Adaptor
Dimensions (W×D×H)	160×280×50mm	136×173×20mm
Weight	1.35kg	0.6kg
Warranty	12 months return to base	

Choose your own connection with either a Parallel, USB or PCMCIA cable.

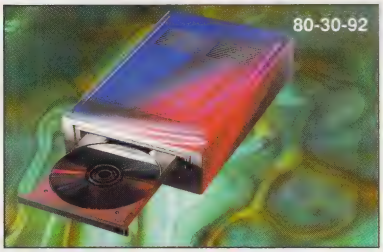
FOR INTERNAL CD-ROM DRIVES SEE PAGE 243

DESCRIPTION	INTERFACE	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Freecom 4x4x32x CD-RW Kit **(Int)**	IDE	80-27-74	117.00	➧	119.95	119.23
NEW Freecom 12x4x32x CD-RW Kit **(Int)**	SCSI	62-38-99	182.00	➧	189.95	188.05
NEW Freecom 12x4x32x CD-RW Kit **(Ext)**	SCSI	62-12-49	262.00	➧	269.95	267.25
NEW Freecom 12x4x32x CD-RW Kit **(Ext)**	Parallel/SCSI	62-08-40	291.00	➧	299.95	296.95
NEW Freecom 4x20x DVD-ROM Kit & s/w **(Ext)**	PCMCIA	22-52-89	184.00	➧	189.95	188.05
Freecom Traveller 24x CD-ROM **(Ext)**	Parallel/ PCMCIA/ USB	62-47-78	111.87	➧	115.00	113.85
Freecom Traveller 4x4x20x CD-RW **(Ext)**	Parallel/ PCMCIA/ USB	12-11-11	236.00	➧	242.95	240.52
NEW Freecom Traveller 6x24x DVD-ROM **(Ext)**	Parallel/ PCMCIA/ USB	62-27-74	184.00	➧	189.95	188.05
NEW Freecom Portable Desktop 48x CD-ROM **(Ext)**	Parallel/ PCMCIA/ USB	82-30-86	62.00	64.95	64.30	63.66
NEW Freecom Desktop 4x4x24x CD-RW **(Ext)**	Parallel/ PCMCIA/ USB	62-49-51	164.00	➧	169.95	168.25
Freecom Desktop 8x40x DVD-ROM **(Ext)**	Parallel/ PCMCIA/ USB	22-52-41	115.00	➧	119.95	118.75
Freecom PCMCIA Cable	PCMCIA	62-47-54	28.84	29.95	29.65	29.35
Freecom Parallel Cable	Parallel	62-47-61	22.89	23.95	23.71	23.47
Freecom USB Cable	USB	26-36-34	34.62	35.95	35.59	35.23
Freecom FireWire Cable	FireWire	37-00-23	52.92	54.95	54.40	53.86

OTHER ITEMS
FOR CD MEDIA SEE PAGES 1046–1049

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CD-WRITERS/RE-WRITERS



The **Amacom EZCD-RW** can be connected to any PC or notebook via PCMCIA or Parallel Port, making it the ideal solution for sharing among numerous PCs.
Create your own data CDs for distributing and exchanging data, software and multimedia files between friends and colleagues. Using Adaptec's Direct CD software you can drag and drop files to CD with as much ease as using your floppy disk drive.

KEY FEATURES:
- Portable parallel port or PCMCIA CD-RW drive.
- High performance and lightweight.
- Supports EPP, bi-directional, uni-directional, ECP and SPP parallel ports (parallel model).
- Type II or III PCMCIA slot (PCMCIA model).
- Pass through printer port for concurrent printing (parallel model).
- Supplied with Adaptec Easy CD Creator, Direct CD, 5 blank CD-R discs and 1 blank CD-RW Disc.
- Supports Windows 95, Windows 98 and Windows NT.



The **CED-8080B** has everything you need to create you own CD's on your PC. Excellent compatibility with cost CD Format discs through its high performance disc mechanism for high speed recording and playback.

KEY FEATURES:
- 2MB buffer memory for preventing buffer under-run.
- High speed data transfer 4.8MB/sec.
- Internal IDE/ATAPI interface.
- 100msec Access Time.



The **Mitsumi CR-4804TE-R** CD-RW internal drive offers a highly reliable 4x write speed, 4x rewrite speed with an 24x read speed.

FEATURES:
- Ideally suited for writing and storing massive amounts of data, up to 650MB per disk.
- Write and read in a large range of formats including multi-session Photo CD and CD-DA.

The **Mitsumi CR-4804TU** USB external CD-RW drive is the best choice for writing, updating and rewriting CDs. With its fast read (24x), write (4x) and rewrite (4x) speed and large buffer memory, this drive will provide reliable and consistent recordings. Set-up and sharing is made easy with its USB interface.

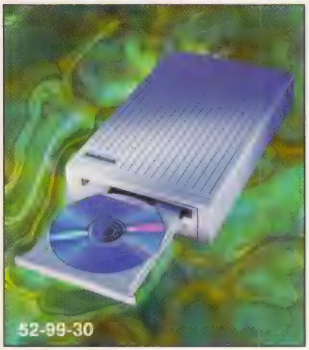
Model	Amacom EZCD	Amacom	LG CED-8080B	Misumi CR-4804TE-R	Mitsumi CR-4804TU
Speed (write, rewrite, read)	4x4x24x	2x2x24x	8x4x32x	4x4x24x	
Interface	Parallel		EIDE		USB
Data buffer	2MB				
Dimensions (W×D×H)	160×220×50mm		146×201×41.5mm	146×201×42mm	180×270×56m
Weight	1.2kg		1.1kg	0.9kg	1.7kg

DESCRIPTION	INTERFACE	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Amacom EZCD 4x4x24x (**External**)	Parallel	80-30-92	213.00	➧	219.00	216.81	
Amacom 24x2x2x (**External**)	Parallel	80-22-63	183.00	➧	189.00	187.11	
LG CED-8080B (**Internal**)	EIDE	22-52-61	145.00	➧	149.95	148.45	NEW
Mitsumi CR 4804TE-R (**Internal**)	EIDE	53-77-61	109.00	➧	112.95	111.82	
Mitsumi CR-4804TU (**External**)	USB	77-93-67	179.00	➧	184.95	183.10	

OTHER ITEMS
FOR CD & DVD MEDIA SEE PAGES 1045–1049

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PARALLEL/PCMCIA PORT DEVICES — MicroSolutions



Backpack CD-RW
Portable, it writes and rewrites CD-RW, writes CD-R and reads CD-ROMs. Installation is simple – no hardware to install inside your computer. Just plug the Backpack CD-RW into your printer port. The smart printer port pass-through provides for uninterrupted printing too. It's easy to share between multiple PCs.

- Parallel Interface
- 4x Re-Write, 4x Write, 20x Read
- 2MB Buffer
- 178 × 292 × 57mm (W × D × H)



Backpack Bantam CD-ROM
This small, portable CD-ROM drive weighs just 0.57kg (inc. power supply). The 24x Backpack Bantam is MultiRead capable – it reads all CD-RW, CD-R and CD-ROM discs. It's perfect for travel, the office and home. Achieves maximum transfer speeds through the parallel port – up to 1,200KB per second. For Windows 95, 98, NT and DOS. Optional built-in sound card works with Win 95 & 98.

- Parallel Interface
- 128K Buffer
- 1,200Kbps data transfer (EPP Mode)
- 152 × 216 × 25mm (W × D × H)



Backpack Hard Drives
Expand your PC's storage and flexibility with Backpack hard drives – compact, attractive and with everything you need for simple installation: hard drive, detachable data cable, wall-plug transformer, software and user's guide. There's no need to open up your PC – The user-friendly backpack hard drives are easy to install. The rugged Backpack hard drives are compact and built tough to travel so you can take your data wherever you go.

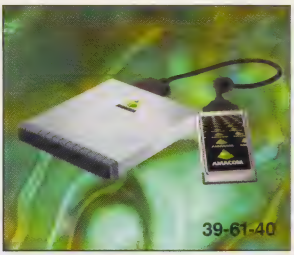
- Parallel or PCMCIA Interface
- 8.4GB or portable storage
- 900Kbps data transfer (EPP Mode)
- 121 × 210 × 50mm (W × D × H)

DESCRIPTION	INTERFACE	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
3.5" 1.44MB external FDD	Parallel	36-99-70	66.00	69.95	69.25	68.56
8.4GB Backpack external HDD	Parallel	64-77-64	212.00	◗	219.95	217.75
8.4GB Backpack external HDD	Parallel/PCMCIA	77-83-08	230.00	◗	239.95	237.55
Backpack 32x CD-ROM external	Parallel	55-24-31	96.00	99.95	98.95	97.96
Backpack 32x CD-ROM external with Built-in Sound Card	Parallel	55-24-48	116.00	◗	119.95	118.75
Bantam 24x external CD-ROM	Parallel	55-24-55	105.00	◗	109.95	108.85
Bantam 24x external CD-ROM with Built-in Sound Card	Parallel	55-24-62	121.00	◗	124.95	123.70
Bantam 24x external CD-ROM	Parallel/PCMCIA	53-77-62	121.00	◗	124.95	123.70
Backpack 4x4x20 external CD Re-writer	Parallel	52-99-30	212.00	◗	219.95	217.75
Backpack 4x4x20 external CD Re-writer	Parallel/PCMCIA	12-10-64	231.00	◗	239.95	237.55
Bantam 4x4x20 external CD Re-writer	Parallel/PCMCIA	38-29-56	313.00	◗	324.95	321.70

OTHER ITEMS
FOR MULTIMEDIA SEE PAGE 328

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

CD-ROM/RE-WRITERS – PCMCIA



The **Amacom Baby CD-RW** is a lightweight, ultra slim portable PCMCIA CD re-writer that is ideal for the laptop computer user who needs to create or access CDs on the move. Supplied with Adaptec Easy CD Creator, Direct CD, 1 blank CD-R Disc and 1 blank CD-RW Disc.



The **Amacom Baby CD** is an ultra slim PCMCIA based portable CD-ROM drive. The Baby CD incorporates a 24X CD-ROM drive and the ideal companion for the laptop computer user who needs to access CDs on the move. Simplicity of use is a factor that Amacom takes very seriously when developing new products. The Baby CD has been designed for today's executive who is on the move. The Baby CD is extremely small and lightweight and does away with the need for bulky mains adaptors as it is powered directly from the computer.



The **Datawise Dash CD** is a 24x CD-ROM drive which weighs only 395g making it the ultimate solution for the mobile user. The Dash CD is completely self powered using it's own internal battery supply which is recharged automatically when the unit is in use – no need for heavy external power supplies.



The **M820e** from **Hewlett-Packard** is a lightweight, portable PCMCIA CD Re-writer. Ideal for professionals who create, archive, transport, share or distribute multi-Megabyte files. It particularly suits those who have different work locations or who need to share the resource with associates.

Model	Baby CD-RW 4x4x20x	Baby CD-ROM	HP M820E
Interface	PCMCIA		
Capacity	682MB		
Transfer rate	CD-ROM: 3000Kb/s CD-RW: 600Kb/s	3.6MB/sec	4 × Write, 4 × Re-write 20 × read
Access time	150ms	130ms	—
Contents	Drive, PCMCIA card, Software 1 × CD-R, 1 × CD-RW	Drive, PCMCIA card	Drive, cable, PCMCIA card 1 × CD-RW, 1 × CD-R
CD-ROM Speed	20×	24×	20×
Dimensions (W × D × H)	137 × 154 × 22mm		130 × 163 × 24mm
Weight	0.4kg		0.5kg
Warranty	12 months return to base		

FOR INTERNAL CD-ROM DRIVES SEE PAGE 243

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Amacom Baby CD PCMCIA 24×	52-95-18	106.00	➧	109.95	108.85	
Amacom Slimline Baby PCMCIA CD-RW 4x4x20x	39-61-40	233.00	➧	239.95	237.55	✂
Datawise Dash CD + PCMCIA Cable CD-ROM Drive	64-77-76	134.00	➧	139.95	138.55	NEW
Hewlett-Packard M820e PCMCIA CD Re-writer	90-52-03	229.00	➧	239.95	237.55	✂

OTHER ITEMS

FOR CD-ROM STORAGE SEE PAGES 527–529

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DVD-ROM & DVD RAM DRIVES

DVD is the new standard for optical digital storage and is about to revolutionise everything you know about computers, video and audio.



Panasonic's LF-D10B DVD-RAM drive incorporates a newly developed brushless motor and the large 2MB buffer contributes to the rapid read/write system processing. The new DVD-632 has a 6× x 32× speed. Able to use as DVD-Audio, DVD-Video, and as a CD-ROM drive. Panasonic moving ahead in technology.



The **DRD-8080B** DVD drive from **LG Electronics** can store up to 4.7GB and one DVD disc will play back over 2 hours of high definition video with excellent clarity of sound when used with an MPEG2 decoder.

FEATURES:

- Access times of 110ms DVD, 80ms CD.
- Compatible with DVD-Video, DVD-Recordable CD-R, CD-RW and CD-ROM.

Model	Samsung Combo Drive	LG DRD-8080B	Panasonic DVD840	Panasonic DVD8x40x	Panasonic LF-D101 DVD
Type	DVD-ROM				DVD-RAM
Interface	EIDE/ATAPI	EIDE		ATAPI	SCSI
Transfer rate	5400 KB/sec	8300KB/sec	—	—	2760KB/sec
Access time	120ms DVD, 110ms CD	110m DVD, 80ms CD	—	—	85ms
Media	DVD-ROM/CD-ROM/R/RW				DVD-RAM DISC
Contents	Drive, cable, manual				
Warranty	12 months return-to-base				

For latest models & prices, please visit:–

www.action.com

DON'T FORGET YOUR MEDIA

	DESCRIPTION	INTERFACE	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	Samsung SM304BE CD-RW/DVD Combo Drive **(Internal)**	EIDE/ATAPI	55-70-23	165.00	♦	169.95	168.25
	LE Goldstar DRD-8080B **(Internal)**	EIDE	12-10-68	74.50	77.95	77.17	76.40
NEW	Panasonic DVD840 **(Retail Version) (Int)**	ATAPI	53-01-65	85.00	89.95	89.05	88.16
NEW	Panasonic DVD 8x40x ATAPI DVD-ROM **(Int)**	ATAPI	30-53-62	85.00	89.95	89.05	88.16
	Panasonic DVD LF-D101 DVD-RAM **(Internal)**	SCSI	55-34-78	363.00	♦	369.95	367.73

OTHER ITEMS
FOR A FULL RANGE OF PCs, MACs & ACCESSORIES, SEE PAGES 50–185

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DVD-ROM/DVD-RW DRIVES

HITACHI

Hitachi announces new multi-function DVD-ROM drives with DVD-RAM media read capability. The **GD-5000** is destined to become the 'Swiss army knife' of data storage with its multi-function, all-purpose capability. The new drive is capable of reading any currently available 120mm optical disc, including all types of CDs, write-once DVD-R and re-writable DVD media recorded using a standard DVD-RAM drive.
It is one of the fastest DVD-ROM drives available today, with data transfer rates up to 11.08 Megabytes per second (8X max) for DVD-ROM and 6.0MB/s (40X max) for CD-ROM and enhanced data access time for all types of media.

FEATURES:

GD-5000
- 5th Generation DVD-ROM Drive for multimedia PC applications.
- 8.5 – GB/side capacity.
- Enhanced IDE (ATAPI) interface.
- CD-R/RW disc compatible.
- 16.6MB/s burst transfer rate.
- 40x max. (CD-ROM).



For latest models and prices, please visit:–

www.action.com

GF-1000
- Next generation rewritable DVD-RAM drive for computer data storage applications.
- 5.2GB total capacity.
- Rapid data transfer rates of 1.38MB/s.
- ATAPI interface.
- DVD-ROM/R, CD-ROM/R/RW disc compatible.
- Advanced caching for enhanced read/write system throughput.

GF-1050
- Next generation rewritable DVD-RAM drive for computer data storage applications.
- 5.2GB total capacity.
- Rapid data transfer rates of 1.38MB/s.
- SCSI-2 interface.
- DVD-ROM/R, CD-ROM/R/RW disc compatible.
- Advanced caching for enhanced read/write system throughput.

Model	Hitachi GD-5000BV	Hitachi GF-1000WB	Hitachi GF-1050
Type	DVD-ROM	DVD-RAM	
Interface	EIDE		SCSI-2
Transfer rate	DVD-ROM 11.08 MB/s CD 6MB/s	1.38 MB/s	
Access time	120ms/90ms	210ms/150ms	
Media	DVD-RAM/R/ROM, CD-ROM/R/RW	DVD-ROM/R, CD-ROM/R/RW	
Contents	Drive, cable, manual		
Dimensions (W×D×H)	146×180×41.3mm	146×208×41.3mm	
Weight	1kg		
Warranty	12 months return-to-base		

DON'T FORGET YOUR MEDIA

DESCRIPTION	INTERFACE	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Hitachi GD-5000BV (Internal) DVD-ROM	EIDE	31-35-64	66.85	69.95	69.25	68.56	
Hitachi GF-1000WB (Internal) DVD-RAM	EIDE	22-52-26	287.00	◗	295.95	292.99	
Hitachi GF-1050 (Internal) DVD-RAM	SCSI-2	12-11-36	346.00	◗	355.95	352.39	
White Box OEM (Internal) 8x DVD-ROM Drive	EIDE	36-17-19	99.95	◗	102.75	101.72	NEW

OTHER ITEMS

FOR A FULL RANGE OF PCs, MACS & ACCESSORIES, SEE PAGES 50–185

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CD DUPLICATORS — CEDAR



Desktop CDR Publisher

The Publisher consists of two 50-disk CD Holders nested in a motorised drawer, up to four drive bays which accommodate standard CD recorders or verifiers, a disc cleaning system, a reject drawer, a colour CD printer and the Cedar robotics unit, arrayed in a vertical 'Tower' configuration. Front panel controls allow manual operation of the reject drawer, the input/output drawer and the robotic 'picker'. Sensors verify disc position to ensure smooth operation and gentle disc handling.

The Cedar Publisher includes fully featured mastering software for Windows 95 and Windows NT. With comprehensive support for multiple sources and multiple jobs, this software includes new high-powered SCSI multiplexing technology, capable of recording to multiple CD recorders simultaneously.

The included CD Face application allows you to design and edit disc labels and offers sophisticated printing features like serialisation and custom data fields. Working together with the recording software, each job can specify a different label for printing on the disc.

The Cedar Publisher incorporates the Primera Signature™ 3 CD printer, which utilises innovative thermal ink-jet printing technology to print sharp text and bold, brilliant graphics directly on to any standard printable-surface CDs.

The Signature 3 features two resolution settings (600 × 300dpi or 1200 × 300dpi) and prints up to 16.7 million colours or black monochrome. Printing a disc takes approximately one minute (depending on coverage). Ink cartridges are available in 3-colour (C, M & Y) and black monochrome (K).

FEATURES:

- Automatically loads, cleans, records, verifies and prints up to 50 CDs.
- Prints brilliant graphics straight onto printable surface CDs.
- Each CD can be printed with a different label.
- CD Face application for designing and editing disc labels included.
- Mastering software for Windows 95 and Windows NT.

FOR CD-R MEDIA SEE PAGES 1046–1049

TECHNICAL SUPPORT HELPLINE 01952 602678

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	Cedar CD-Duplicator + 1 (8×) + software	62-53-47	3889.95	➧	➧	3895.00
NEW	Cedar CD-Duplicator + 1 (8×) + software + Printer	62-17-68	5175.00	➧	➧	5175.00
NEW	Cedar CD-Duplicator + 2 (8×) + software	62-30-93	4269.95	➧	➧	4275.00
NEW	Cedar CD-Duplicator + 2 (8×) Drive + Software + Printer	62-94-77	5495.00	➧	➧	5495.00
	White Printable CD-R Disks (**50 pack**)	30-53-64	72.18	74.95	74.20	73.46
	Silver Printable CD-R Disks (**50 pack**)	93-17-32	82.00	82.00	82.00	82.00
	Black Printer Cartridge for Signature III	69-23-02	34.36	35.95	35.59	35.23
	Colour Printer Cartridge for Signature III	48-12-63	42.01	43.95	43.51	43.08

OTHER ITEMS
FOR BLANK CD-R MEDIA SEE PAGES 1046–1049

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CD SERVER

AXIS COMMUNICATIONS

LanStor
High Availability Network Attached Storage Solutions



Based upon the best selling Axis CD Storage Servers, the LanStor NAS (Network Attached Storage) Solutions from AFP offers the **fastest** and most **flexible** way to share CD-ROM/DVD based information across a network. The LanStor allows hundreds of users to share your CD-ROM/DVD based information at hard disk speed. Whether you need fast simultaneous access to applications, legal information, corporate data, or educational material the LanStor is a scalable solution which can be optimised to meet the needs of your business.

- Hard Disk Caching: the LanStor E100 provides integral hard disk caching support for applications requiring access to data at hard disk speeds and for explaining the volumes of CD/DVD's available on-line to users.
- Complete Network Support: the most complete list of networking protocols and operating systems are supported simultaneously.

Whether users are running NetWare (Bindery or NDS), Windows NT, UNIX, OS/2 or Web, they can access on-line CD and DVD data at the same time over any network.

- 10BT, 10/100, Token Ring (CD only) and AUI interfaces available.
- Easy to install, no network downtime.
- Powerful Web Enabled Management Tools.
- 32MB RAM Standard/Upgrade to 160MB.
- On-site maintenance options available.

Choose the most appropriate solution for your requirements from the list below.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
AFP LanStor 15 E-100 15CD Solution	84-17-58	1399.00	➧	➧	1425.00	NEW
AFP LanStor 25 E-100 25CD Solution	84-30-87	1499.00	➧	➧	1525.00	NEW
AFP LanStor 50 E-100 50CD Solution	84-30-86	1960.00	➧	➧	1995.00	NEW
AFP LanStor 100 E-100 100 CD Solution	84-53-45	2449.00	➧	➧	2475.00	NEW

OTHER ITEMS

FOR BLANK CD-R MEDIA SEE PAGES 1046–1049

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NETWORK ATTACHED STORAGE



The SureStore CD-ROM/DVD Server Towers

Problems with controlling data distribution via CD-ROMs or DVD-ROMs through your organisation?

If you have, consider the new range of CD–DVD server towers offered by HP. The towers are Network Attached Storage (NAS) devices which are based on 'Thin Server' technology, pioneered by HP on printers.

What does this mean to you?

- The towers can be installed on the network in under 30 minutes.
- They are NOS independent and are true plug & play.
- The server can be located anywhere on the network
- These are dedicated serves, which take the data traffic loading away from the main servers to increase network throughput
- Increased end user up time, the NAS CD/DVD towers are still accessible even if other parts of the network are down
- Store up to 32 CD-ROMS on the 18GB Multi Disc cache server
- Fully supported by WebJet Admin peripheral management software, allowing remote managemet of the server and network printers
- Lower cost of ownership as one CD Set can be shared over the network

All HP NAS CD/DVD servers have 2 year express exchange warranty.

MAC SUPPORT NOW AVAILABLE

DESCRIPTION	PART NO	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
HP SureStore CD-ROM Server (Tower Server Module, 7 × 32 speed CD-ROM drives)	J3278B	46-14-67	1276.00	➧	➧	1299.00
HP SureStore CD-ROM Server plus Tower Server Module, 6 CD & 18GB Hard disk cache Capacity up to 32 full CD-ROMs	J4150A	80-30-88	2083.00	➧	➧	2099.00
HP SureStore Expansion Tower Can be used with J3278B, J4150A to expand number of CD-ROMs by extra 7 drives	J4148A	80-53-44	943.00	➧	969.95	960.25
HP SureStore 19" rackmount kit	C2982A	80-94-75	49.70	52.00	51.48	50.97
HP CD-ROM Mounting Software	C2998A	44-44-15	38.00	39.95	39.55	39.15

OTHER ITEMS
FOR NETWORK CABLE GUIDE SEE PAGE 599
FOR HP HUBS SEE PAGES 680, 681

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CD/DVD LIBRARIES

PROCOM TECHNOLOGY

Network Attached Storage – CD/DVD-ROM Caching

Procom Technology has raised the standard for CD-ROM and DVD-ROM systems with **DataFORCE.** DataFORCE can be directly attached to either 10/100 Ethernet or Token Ring network environments, high speed access, 6 to 75GB of storage; network ready, 32-bit processing power to move CD-ROM and DVD-ROM data across your network. DataFORCE is compatible with Novell Netware, Windows NT, OS/2, UNIX and Mac (Q1 2000).

The easy to use LCD display configures the DataFORCE for your network and installs the CD/DVD ROMs to the high-speed cache in minutes. CD-ROMs are loaded into one 5-disc CD-ROM changer and an optional DVD-ROM drive and are cached to the Hard Drive, this enables valuable CD/DVD ROM data to be accessed at Hard Drive speed.

The embedded MESA (Managed Enterprise Storage Architecture) software allows DataFORCE to connect directly to the Network cabling and provides access to client workstations without TSRs or proprietary software.



FEATURES AND BENEFITS:

- Choice of CD-ROM or CD-ROM and DVD-ROM.
- 10 to 75 disc capacity units available.
- Simple installation.
- Simple management – web based management tools.
- Security and metering.
- Cross platform access.
- Aggregate mapping.
- Award winning CD FORCE software installed.
- No network down time.
- Supports all popular network protocols.
- Rackmount units also available.
- Controls your valuable CD/DVD-ROM resources.
- 3 years return to base warranty.

PROCOM TECHNOLOGY

TECHNICAL SUPPORT HELPLINE
01953 602678

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DataFORCE DF110-FE Ethernet, software, 10 disc capacity 6.4GB, 1 Autochanger	36-99-98	1325.00	◗	◗	1349.00
DataFORCE DF120-FE Ethernet, software, 20 disc capacity 13.5GB, 1 Autochanger	53-00-19	1793.00	◗	◗	1825.00
DataFORCE DF300-33FE Ethernet, software, 33GB disc capacity, 1 Autochanger, 1 DVD	12-11-00	2823.00	◗	◗	2845.00
DataFORCE DF300-50FE Ethernet, software, 50GB disc capacity, 1 Autochanger, 1 DVD	38-29-87	3507.00	◗	◗	3525.00
DataFORCE DF300-75FE Ethernet, software, 75GB disc capacity, 1 Autochanger, 1 DVD	36-99-99	4334.00	◗	◗	4345.00

OTHER ITEMS
FOR NETWORK CABLE GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CD/DVD LIBRARIES

JVC

JVC DVD & CD Jukeboxes – 100/200 Capacity

JVC has combined its 30 years of robotics experience to produce its current range of CD & DVD Library systems and offers an extremely flexible and reliable range.

APPLICATIONS:

- Network distribution of Pre-recorded Discs.
- Near-line server of image files.
- Network recording.
- Disc Replication and Printing.
- Web site server.

FEATURES:

- Interfaces to all major jukebox control software.
- High reliability, RS-232 diagnostics.
- Fast exchange time.
- Up to 2.5 million MSBF.
- SCSI-2 with individual drive IDs.
- Includes software.





JVC 100 Capacity Jukeboxes

MC-2100 Series Optical Disc Library 100 Disc Capacity.

- DVD-ROM, CD-ROM and CD-R.
- 4 spaces for combinations of above drives.
- Includes software.
- Data capacity – CD:65GB, DVD-ROM:0.47TB.

MC-7100 Series DVD-RAM Library 100 Disc Capacity.

- DVD-RAM, Rewritable (2.6GB).
- 4 drive space permanently available.
- Data capacity-DVD-RAM: 0.26TB.
- Reads CD-ROM, DVD-ROM and DVD-R.

JVC 200 Capacity Jukeboxes

MC-2200 Series Optical Disc Library 200 Disc Capacity

- DVD-ROM, CD-ROM and CD-R.
- 6 spaces for configurations of above drives.
- Data capacity-CD: 130GB, DVD-ROM: 0.94TB.

MC-7200 Series DVD-RAM Library 200 Disc Capacity.

- DVD-RAM, Rewritable (2.6GB).
- 6 drive spaces permanently available.
- Data capacity-DVD-RAM: 0.52TB.
- Reads CD-ROM, DVD-ROM and DVD-R.

FOR FURTHER INFORMATION ON CONFIGURATION OPTIONS PLEASE CALL 01252 741219

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
JVC MC-2120U 100 Disc Jukebox – 2xCD-ROM	52-99-55	3676.00	➧	➧	3695.00
JVC MC-7102U 100 Disc Jukebox – 2xDVD-RAM	12-10-76	5695.00	➧	➧	5695.00
JVC MC-2221U 200 Disc Jukebox – 2xCD-ROM, 1xCD-R	38-29-66	5995.00	➧	➧	5995.00
JVC MC-7202U 200 Disc Jukebox – 2xDVD-RAM, 1xCD-R	36-99-80	7295.00	➧	➧	7295.00

OTHER ITEMS

FOR CD DVD MEDIA SEE PAGES 1045–1049

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

RAID SYSTEMS

BLUE DISC

The Blue Disc **RAID** series is a range of high-performance host independent RAID storage systems. Each RAID system is compatible with all major operating systems including Mac OS and UNIX.

I-RAID is a low cost, high performance deskside RAID solution that provides fast, reliable data storage for workstation users and small to medium servers. They are available in capacities of up to 65GB at RAID5 with one hot spare drive.



64-12-69

- High performance protected data storage.
- 6 UDMA channels that connect up to 6 × 1" drives.
- RAID levels 0,0+1,1 or 5.
- Fault-tolerance capacities as high as 240GB.
- Dual hot swap power supplies.
- 4 hot swap fans.
- Built-in RAID controller.
- Hot-swap disk enclosures with automatic start of disk rebuild.
- Ultra-wide SCSI link to host – No data bottleneck.

In a PC network, workstation environment or UNIX based system, access to data is critical. It's essential to find a way of keeping your data secure but maintaining high performance data transfer rates. The solution is RAID, and the Blue Disc I-RAID provides the best balance of performance, reliability and price.
The I-RAID comes complete with hot-swappable Ultra DMA hard discs, providing up to 240GB of fast, fault tolerant data storage at RAID level 5. The I-RAID can also be configured for RAID 0,0+1 or 1. The built-in Intel RAID controller allows you to connect the I-RAID to virtually any PC Server, UNIX system or AppleMac – as long as it's got a wide SCSI controller, the I-RAID will connect to it.
The onboard SCSI controller utilises Intel and Symbios logic chipsets. I-RAID comes with a 1 year advance warranty scheme – You will receive a next day replacement in the unlikely event of product failure*
Everyone knows how complicated conventional disc arrays can be to set up and configure. That's why the I-RAID is designed with a simple step-by-step built-in setup program. For example, a full RAID 5 array only requires three button presses on the front panel.

* Subject to availability.

Networking pre-sales team
08701 66 33 22

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
I-RAID 300 with 3 × 20GB drives	64-18-52	2178.00	◗	◗	2195.00
I-RAID 600 with 6 × 20GB drives	64-31-78	2555.00	◗	◗	2575.00
I-RAID with 3 × 37.5GB drives – 72GB fault-tolerant capacity	64-70-54	2699.00	◗	◗	2725.00
I-RAID with 6 × 37.5GB drives – 187.5GB fault-tolerant capacity	64-22-97	3399.00	◗	◗	3425.00
I-RAID with 3 × 45GB drives – 96GB fault-tolerant capacity	64-49-68	2915.00	◗	◗	2925.00
I-RAID with 6 × 45GB drives – 240GB fault-tolerant capacity	64-12-69	3719.00	◗	◗	3725.00

OTHER ITEMS FOR GUIDE TO HARD DRIVES SEE PAGE 215

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

STORAGE SERVERS

Quantum





SNAP! Server is the easiest, most affordable way to add a reliable, set-and-forget storage server to your network. Use it for general purpose file sharing, as a dynamic back up device, software distribution, data protection (network mirroring) or just a temporary location for a lot of data on your network.
You can install a SNAP! Server is under 5 minutes, without disturbing your existing file server or interrupting existing users. No special configuration is needed for ordinary use.

- **Choice of 10, 20 or 40GB of network storage for file sharing.** Snap Server provides the ideal network file sharing solution for the small- to medium-sized networks found in most existing businesses and corporate workgroups.
- **Installs in fifteen minutes or less.** Plug in Ethernet cable, plug in power cord, and power on the Snap Server. Snap Server automatically detects 10 or 100 Megabit Ethernet LAN with no user intervention, and receives automatic IP address assignment from a DHCP, BOOTP or RARP server.
- **Supports Microsoft, Novell, Apple and UNIX NFS networks simultaneously for transport file access.**
- **Integrates with Windows NT Domain security and NetWare bindery.**
- **Remote server management with a Web browser.** Using a Microsoft or Netscape Web browser, you may access the Snap Server for server administration anywhere on the network.
- **Stable underload.** Snap Server routinely supports up to 100 concurrent users, more than other competitors of the same class.
- **Model 1000 – lightweight, weighing only 3lbs.**
- **Model 2000 – supports disk striping (RAID 0) and disk mirroring (RAID 1).**

Key Features

- Capacities available — 10, 20 and 40GB.
- High speed performance.
- Supports Macintosh clients.
- RAID support — RAID 0 and 1.
- Enhance security set up using simple wizards.
- Pre-configured for Windows, NetWare, Macintosh, DOS LAN Manager and UNIX networks.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Quantum 10GB (Snap Server 1000)	49-19-33	373.68	➧	384.14	380.30	NEW
Quantum 20GB (Snap Server 2000)	48-30-91	675.00	➧	693.90	686.96	NEW
Quantum 40GB (Snap Server 2000)	49-55-53	1209.06	➧	➧	1230.48	NEW

OTHER ITEMS

FOR GUIDE TO HARD DRIVES SEE PAGE 215

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

AIT DRIVES

SONY

ADVANCED INTELLIGENT TAPE (AIT)

Future of Data

As we enter a new era of data exchange, computers will become an even more significant part of our daily lives. The bottom line is simple: everyone is demanding faster access to more information. Consequently, the need for fast data access and low-cost storage is increasing tremendously. With optimised information access features, the AIT Drive is designed to handle the upcoming explosion of data storage management.

Easy-to-Use Back-up Environment for high end-users

AIT was developed for the purpose of efficiently and reliably storing large amounts of data. The recording capacity of over 50GB (with data compression) together with a data transfer speed of 6MB (with data compression) and a data transfer rate of 3MB (6MB with compression).

Reliable Data Storage

The same reliable magnetic recording technology that the broadcast industry relies upon is also the important technology in the AIT format. The servo tracking system permits high density recording through accurate tracking using embedded servo bursts.

High Speed Data Transfer

AIT incorporates fast/wide SCSI technology to maximise data transfer to and from the host system at a burst rate of 20MB.

The **SDX-300C** and **S300C** Drives uses a data compression chip formerly available only in high-end mainframe class tape drives.

The **SDX-500** and **S500C** start Sony's second generation of AIT (Advanced Intelligent Tape) Drives. The AIT-2 offers doubled performance: recording capacity of 50GB per cartridge and the transfer rate of 6MB per second (both native). In a time of growing need, higher performance and high reliability tape drives, the advent of AIT-2 confirms AIT's position as the new standard for mid-range tape storage solutions.



The **TSL-A300C** and **TSL-SA300L** are designed with a unique push cartridge transport system within the autoloader eliminates the mis-grip issues conventional cartridge picking systems encounter, high storage capacity of 200 Gigabytes (compressed)* provides 4 times the unattended data storage of a single AIT drive, Memory-In-Cassette (MIC) reader embedded in the elevator provides swift access to the data location promoting ultra fast file search, easy data management, and rapid media load.

Model	SDX-300C Internal	SDX-S300C External	SDX-500C Internal	SDX-S500C External
Type	AIT-1		AIT-2	
Interface	SCSI-2		Ultra SCSI	
Media	Advanced Metal Evaporated (AME)			
Data Transfer rate	3MB/s (uncompressed) 6MB/s (compressed)		6MB (Native), 12MB (compressed)	
Buffer	4MB		8MB	
Dimensions(W×D×H)	102×155×41mm	189×262×58mm	101×155×41mm	189×262×58mm
Weight	0.75kg	2.2kg	0.78kg	2.6kg
Warranty	3 years parts & labour (1st year 24hr swap out)		3 Years	

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Sony AIT Drive SDX-300C (**Internal**)	64-18-47	1029.00			1049.00	
Sony AIT Drive SDX-S300C (**External**)	64-18-54	1212.00			1239.00	✂
Sony TSL-A300C AIT Autoloader (**Internal**)	64-70-89	CHECK ONLINE			FREE Call	NEW
Sony TSL-SA300C AIT Autoloader (**External**)	64-23-46	CHECK ONLINE			FREE Call	NEW
Sony AIT2 Drive SDX-500C (**Internal**)	38-29-54	1964.00			1999.00	
Sony AIT2 Drive SDX-S500C (**External**)	36-99-69	2169.00			2195.00	✂

OTHER ITEMS

FOR AIT MEDIA SEE PAGES 1055

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

TAPE DRIVES

Quantum



Quantum DLT 7000 half-inch cartridge tape drives provide leadership in data storage and retrieval for the most demanding data back-up, archive, and near on-line storage applications. The tape drive features a native transfer rate of more than 5MB per second, with a native capacity of 35GB.

- Native capacity: 35GB.
- Compressed capacity (2:1 compression); 70GB.
- Native Transfer rate: 5.0MB/sec.
- Compressed Transfer Rate (2:1 compression); 10.0MB/sec.
- Interface Options: SCSI-2 Fast/Wide (S/E or Differential).

Quantum DLT 4000 half-inch cartridge tape drives are designed for heavy duty-cycle computer applications in the mid-range to high-end of the tape drive market. The DLT 4000 tape drives offer an unparalleled combination of 20GB native per cartridge and a native transfer rate of 1.5MB per second.

- Native capacity: 20GB.
- Compressed capacity (2:1 compression); 40GB.
- Native Transfer rate: 1.5MB/sec.
- Compressed Transfer Rate (2:1 compression); 3MB/sec.
- Interface Options: SCSI-2 S/E or Differential.

Quantum DLT 8000 half-inch cartridge tape drives provide leadership in data storage and retrieval for the most demanding data back up, archive, and near on-line storage applications. The tape drive features a native transfer rate of up to 6MB per second, with a native capacity of 40GB.

- Native capacity: 40GB.
- Compressed capacity: up to 80GB.
- Native Transfer rate: 6.0MB/sec.
- Compressed Transfer rate: up to 12.0MB/sec.
- Interface Options: SCSI-2 Fast/Wide (LVD/SE or HVD).

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	DLT 4000 20/40GB S/E Internal Tape Drive	38-17-57	965.42	➧	999.95	989.95
NEW	DLT 4000 20/40GB S/E External Tape Drive	38-30-86	1075.00	➧	➧	1095.00
NEW	DLT 7000 35/70GB S/E Internal Tape Drive	34-53-45	2679.00	➧	➧	2699.00
NEW	DLT 7000 35/70GB S/E External Tape Drive	34-94-75	2875.00	➧	➧	2899.00
NEW	DLT 8000 40/80GB S/E Internal Tape Drive	36-17-17	2729.00	➧	➧	2749.00
NEW	DLT 8000 40/80GB S/E External Tape Drive	36-70-21	2875.00	➧	➧	2899.00

OTHER ITEMS

FOR DATA CARTRIDGES INDEX SEE PAGE 1064

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

TAPE DRIVES – DLT



DON'T FORGET YOUR MEDIA



Hewlett-Packard's Surestore DLT 40e/i tape drive provides external back-up solutions for high end server users. The DLT40e gives 40GB compressed capacity. With software connectivity to all DLT applications, this package also comprises a DLT cartridge, cleaning cartridge, cable, manual and drivers for NetWare and Windows NT for all-round, ultra-high performance.

Hewlett-Packard's SureStore DLT 80 benefits from the advances in reliability, an improved native transfer rate of 6MB/second and flexible LVDS connectivity. The HP SureStore DLT 80 is compatible with leading operating systems and software platforms. For extra peace of mind, the HP SureStore DLT 80 is fully supported by HP Customer Care and benefits from HP's Express Exchange warranty with free technical support.

HEWLETT PACKARD HELPLINE 08701 66 99 77

Capacity up to 80GB

Model	HP DLT 40	HP DLT 80
Interface	SCSI-2	SCSI-3
Capacity*	20GB/40GB	40GB/80GB
Transfer rate	Up to 3MB/sec	Up to 12MB/sec
Media	DLT tape	DLT tape IV
Package contents	Manual, cleaning cartridge, DLT cartridge, software, cable	
Dimensions (W × D × H)	230 × 302 × 125mm	175 × 325 × 160mm
Weight	6kg	6.63kg
Warranty	12 months next day on-site/optional SupportPack	3 year Express Exchange

*Native and with compression.

DESCRIPTION	CAPACITY	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
HP DLT 40i (**Internal**)	40GB	63-10-84	1049.00	▶	▶	1075.00
HP DLT 40e (**External**)	40GB	86-06-66	1194.00	▶	▶	1199.00
HP DLT 80i (**Internal**)	80GB	38-29-43	2595.00	▶	▶	2599.00
HP DLT 80e (**External**)	80GB	36-99-63	2795.00	▶	▶	2845.00
HP DLT 40 SupportPack	N/A	84-53-13	181.00	▶	189.00	187.11
HP DLT 80 SupportPack	N/A	96-22-58	288.68	▶	299.00	296.01
HP DLT Tape 15/30GB (**10 Pack**)	15/30GB	04-41-69	236.01	▶	256.95	249.24
HP DLT Tape 20/40GB (**10 Pack**)	20/40GB	04-42-24	505.13	▶	549.95	533.45

OTHER ITEMS
FOR PARALLEL PORT DEVICE SHARERS SEE PAGES 565–580

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶Save £££'s!
▶▶Check live stock
▶▶Track order status

TAPE DRIVES – TRAVAN 5 DAT



HP's DDS-4 drive, the HP SureStore DAT40, addresses the evolving backup needs of an exceptionally wide range of organisations and network configurations with a ground-breaking combination of speed and reliability that is highly cost-effective to run. Specific backup requirements are dictated as much by what an organisation does as by its size. However, one key characteristic is common to every user: the need to back up more data in less time – and this is exactly what the HP SureStore DAT40 delivers.

Key features:

- 40GB capacity and 21.6GB/hour (6MB/s) transfer rate – no other DDS-4 drive is faster.
- HP One-Button Disaster Recovery – simple disaster recovery from just one backup tape.
- Tested compatibility with all major server, software and operating systems.

The **SureStore T20i/e** and **T20xi/xe** offer full system protection for small businesses with 20GB capacity, a transfer rate of up to 120MB/min using a QIC/Travan 5 format.
The **HP SureStore DAT24** is a powerful information storage solution that provides unparalleled backup performance and reliability. It provides plug-and-play connectivity with the top four server brands and includes TapeAlert software which maintains the integrity of data throughout the backup process.

Model	SureStore T20i/e	SureStore DAT24i/e	SureStore DAT40i/e
Type	Travan 5	DDS-3	DDS-4
Interface	SCSI-2		
Capacity*	20GB	24GB	40GB
Media	TR-5/QIC-wide	DDS-3	DDS-2, 3, 4
Data transfer rate	2MB/sec		
Software	Colorado Back-up for Windows		Colorado Back-up II
Package contents	Drive, cables, data cartridge, cleaning cartridge manuals		Drive, Software, cables, Manual
Dimensions (W×D×H)	—	116×220×95mm (Ext)	
Weight	2.27kg (Ext)	2.6kg (Ext)	2.1kg
Warranty	2 year Express exchange	3 year Express exchange	

***Capacity is dependent on data compression.**

For Media see pages 1060–1061

DON'T FORGET YOUR MEDIA

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
HP SureStore T20i (**Internal**)	62-29-76	258.00	➧	262.95	261.37
HP SureStore T20e (**External**)	62-29-83	310.00	➧	315.95	314.05
HP SureStore T20xi* (**Internal**)	31-34-72	314.00	➧	319.95	318.03
HP SureStore T20xe* (**External**)	39-60-72	363.00	➧	369.95	367.73
HP SureStore DAT24i (**Internal**)	86-19-33	599.00	➧	610.95	607.28
HP SureStore DAT24e (**External**)	86-19-40	645.00	➧	649.95	648.33
HP SureStore DAT40i (**Internal**)	52-98-87	745.00	➧	749.95	748.08
HP SureStore DAT40e (**External**)	12-10-49	786.00	➧	799.95	795.15
HP DDS-3 Autoloader 144GB (DC)	68-73-68	1312.19	➧	➧	1325.95

*Incl. Stac Replica Disaster Recovery for WIN NT and Netware.

OTHER ITEMS
FOR DATA CARTRIDGES INDEX SEE PAGE 1037
FOR PCs & ACCESSORIES SEE PAGES 50–185

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

TAPE DRIVES – DAT

The **HP SureStore Tape 5000** provides a simple and effective backup solution for price-conscious network managers. It offers the lowest cost of ownership of any drive, with the capacity to store 4GB on a single tape.
Available as an internal or external drive, it includes everything you need to get started, including backup software for network server and workstation applications.

FEATURES:

- Simple, effective, low-cost solution
- Backup software for network servers and workstations
- Compatible with leading operating systems and software
- HP's reliable DAT technology using DDS-DC format
- 4GB capacity and transfer rate of 1MB/s

The **HP SureStore DAT8** makes backup a quick, simple and totally reliable process. Everything you need is in the box, including cables, rails, media, backup software for network servers and workstations, HP One-Button Disaster Recovery, TapeAlert and a number of useful start-up tools.

FEATURES:

- Best mix of ease of use, performance and cost of ownership
- Hardware connectivity with the top four server and PC workstation brands – Compaq, Dell, HP and IBM
- Compatible with leading operating systems and backup software
- HP One-Button Disaster Recovery
- Continuous backup monitoring with TapeAlert
- 8GB capacity and transfer rate of 3.6GB/hour



DON'T FORGET YOUR MEDIA

Model	SureStore 5000i/e	SureStore DAT8i/e
Type	DDS DAT	DDS-2 DAT
Interface	SCSI-2	
Capacity*	4GB	8GB
Media	4mm/90m DAT	4mm/120m DAT
Data transfer rate	1MB/Sec*	2MB/sec*
Software	Colorado Back-up for Windows	
Package contents	Drive, cables, data cartridge, cleaning cartridge manuals	
Dimensions (W×D×H)	116×220×100mm (Ext)	116×220×95mm (Ext)
Weight	1kg (Int) 2.2kg (Ext)	0.77kg (Int) 2.27kg (Ext)
Warranty	3 year Express exchange	
Optional Warranty	3 years on-site with HP SupportPack (81-58-17)	

***Dependent on data compression.**

For Media see pages 1060, 1061

DESCRIPTION	HP PART NO	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
HP SureStore 5000i (**Internal**)	C1526K	78-12-40	299.00	♦	309.95	308.09	✂
HP SureStore 5000e (**External**)	C1521K	78-12-57	374.00	♦	379.95	379.00	✂
HP SureStore DAT8i (**Internal**)	C1528K	86-17-06	447.42	♦	459.95	455.35	
HP SureStore DAT8e (**External**)	C1529K	86-17-13	489.00	♦	499.95	496.95	✂
HP SupportPack – 3 years on-site	H5471A	81-58-17	99.40	♦	102.95	101.92	

OTHER ITEMS
FOR DATA CARTRIDGES INDEX SEE PAGE 1037
FOR PCs AND ACCESSORIES SEE PAGES 50–185

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

TAPE DRIVES – DAT

SONY



Sony elevates 4mm digital storage (DDS) technology to a higher level of capacity. All of these models use 4mm 120m DAT media, but the drives allow backward compatibility with earlier DDS media.

The **SDT-7000** has the fastest data transfer rate in the industry (for DDS-2 technology) at 1.5MB/sec with data compression. This is a result of the drum head rotating at 4 times the speed of conventional drives. This speed, coupled with a compressed capacity of 8GB and the ability to store this on a single credit card size data cartridge, makes the SDT-7000 a compact, cost-effective mass storage solution. The system has also been designed with convenience in mind. With its SCSI-2 controller the SDT-7000 is simple to integrate into a wide choice of computers and just as importantly, the adoption of a flash memory enables easy firmware loading and upgrading. As with all Sony DAT drives, the digital servo-controlled mechanism assures accurate and efficient tape handling.

The **Sony SDT-9000** is a DDS-3 drive that has up to 24GB of storage capacity with data compression, using 125m tape. It has one of the industry's fastest Data Transfer Rates of 2.4MB per second. The patented Super Head cleaner and the Hyper Metal Head make a dramatic improvement to performance and reliability. It has a fast SCSI 2 interface and incorporates a 2MB buffer. Backwards compatibility allows the use of DDS-1 and DDS-2 tapes as well.

Today's rapidly expanding networks and information systems require a fast, reliable storage solution. Sony's new **SDT-11000 (Int.)** DDS-4 Tape Drive, based on the firmly established DDS media system, is the answer. It's attractive features of compact size, fast speed and large capacity make this tape streamer ideal for data storage in all applications, from corporate servers and workstations, to SOHO environment. Sony, the co-founder of the DDS format, is again the first to bring the benefits of this new generation into the market.

Model	SDT 7000	SDT 9000	SDT 11000
Interface	SCSI-2		UW SCSI
Capacity	4/8GB compressed	12/24GB compressed	20/40GB
Transfer rate	1.5MB/sec	2.4MB/sec	4.8MB/sec
Media	DDS-2 cartridge	DDS-3/DDS-/DOS-1 cartridge	DDS-4,3,2,1
Contents	External – drive, manual, cable Internal – drive, mouting kit, bezel, cable, manual		
Dimensions (W × D × H)	160 × 299 × 52mm (Ext)		102 × 146 × 42mm
Weight	1.87kg(Ext) 0.77kg(Int)		0.6lkg
Warranty	2 year parts and labour		

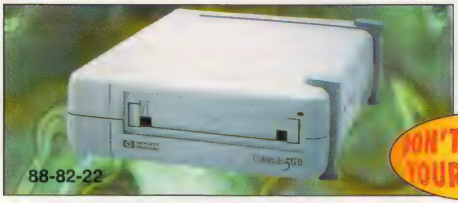
For further warranty and technical data please visit www.sony.com

DESCRIPTION	INTERFACE	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Sony SDT-7000i **(Internal)**	SCSI-2	86-18-47	319.00	♦	329.95	327.97
Sony SDT-7000e **(External)**	SCSI-2	82-37-68	419.00	♦	429.95	427.37
Sony SDT-9000i **(Internal)**	SCSI-2	86-13-66	449.00	♦	459.95	455.35
Sony SDT-9000e **(External)**	SCSI-2	68-48-97	534.00	♦	549.95	544.45
Sony SDT-11000 **(Internal)**	UW SCSI	22-52-50	632.00	♦	649.95	643.45
Sony 4mm 120m DDS-2 Tape **(10 Pack)**	—	04-13-06	56.98	63.95	62.03	60.17
Sony 4mm 125m DDS-3 Tape **(10 Pack)**	—	04-13-13	146.00	♦	158.95	154.18

OTHER ITEMS
FOR DATA CARTRIDGE INDEX SEE PAGE 1037

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

TAPE DRIVES – TRAVAN™*





HP COLORADO 5GB & COLORADO 8GB

The **HP Colorado 5GB** Internal and External drives enable you to backup 2GB in less than an hour – twice as fast as comparable drives. The **Colorado 8GB** Travan drives offer breakthrough performance for PC back-up with 4GB native capacity (8GB compressed), 45-70MB/min back-up speeds and Install Assistant for easy installation and configuration. They come with CBW '95 by Cheyenne, enabling easy data recovery for Windows '95 users after a system failure. They also come with CBW 3.x and DOS ensuring that the HP Colorado systems go beyond data backup to full system protection.

HP COLORADO 14GB & COLORADO 20GB

The **HP Colorado 14GB** backs up and restores your data quickly and completely – and on a single piece of media. The **Colorado 20GB** IDE tape drive from Hewlett-Packard is extremely fast with performance up to 110MB/min or 90MB/min with Colorado 14GB. It includes Install Assistant for easy and quick installation and it allows you to backup without having to interrupt your work. You can also schedule unattended backup, and HP's Disaster Recovery software protects your data should disaster strike. Reliability is also increased with HP Colorado Backup II software which advises you when the projected life of the tape is nearing its end.

Model	HP Colorado 5GB	HP Colorado 8GB	HP Colorado 14GB	HP Colorado 20GB
Capacity	2.5/5GB	4/8GB	7/14GB	14/20GB
Interface	IDE/Parallel			
Backup Speed	40-55MB/min	45MB/min (Int) 70MB/min (Ext)	90MB/min (Int) 45MB/min (Ext)	110MB/min (Int) 45MB/min (Ext)
Media	HP Colorado 5GB mini-cartridges	QW3095, TR4 & 5GB	14GB mini-cartridges	Data cartridge
Software	See above			
Contents	Power cable, software		Power cable, software, media (1pk)	Power cable, software
Dimensions (W×D×H)	146×206×54mm (Ext)		145×206×55mm (Ext)	
Weight	0.9kg (Ext)	0.907kg (Ext)	0.907 (Ext)	0.9kg (Ext)
Warranty	2 Years Limited	2 Years return to base	2 Years Limited	

For further warranty and technical data please visit www.hp.com

DESCRIPTION	INTERFACE	CAPACITY	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
HP Colorado 5GB **(Internal)**	IDE	5GB	88-82-15	126.00	➧	129.95	129.17	✂
HP Colorado 5GB **(External)**	Parallel	5GB	88-82-22	155.00	➧	159.95	158.99	✂
HP Colorado 8GB **(Internal)**	IDE	8GB	24-17-11	136.00	➧	139.95	139.11	✂
HP Colorado 8GB **(External)**	Parallel	8GB	29-28-70	164.00	➧	169.95	168.93	✂
HP Colorado 14GB **(Internal)**	IDE	14GB	12-08-55	174.00	➧	179.95	178.15	✂
HP Colorado 14GB **(External)**	Parallel	14GB	22-49-69	194.50	➧	199.95	197.95	
HP Colorado 20GB **Internal**	IDE	20GB	22-52-19	189.00	➧	195.95	193.99	
HP Colorado 20GB **(External)**	Parallel	20GB	12-11-32	218.00	➧	224.95	222.70	✂
HP Colorado Data Cartridge for 5GB **(2pk)**	—	—	11-28-71	34.18	39.50	38.95	37.95	

*Travan ™ is a registered trademark of the Imation Corporation.

OTHER ITEMS FOR DATA CARTRIDGES INDEX SEEE PAGE 1037

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

TAPE DRIVES — DAT & DLT

CRISTIE


64-70-57

Cristie is widely recognised as being at the forefront of leading edge data storage technology. Cristie offers a range of data storage devices based on DLT, DAT and Travan technology, with capacities from 4GB to over 1TB, available in a number of configurations, from internal drives to multi-drive libraries. These technologies have been chosen for their price, performance and reliability. Interface compatibility includes support for LVD, SCSI, IDE, PCMCIA, USB and Cristie Parallel Port connected devices.

The **DAT series** of tape drives offer efficient and reliable data storage, using Digital Audio Tape technology. In today's rapidly expanding networks and information systems require fast, reliable storage solution, the new DAT DDS4 based on the firmly established DDS media systems is the answer.

DAT24-DDS3 capacity is from 12GB to 24GB with compression. Portable (parallel/SCSI), external and internal SCSI versions available. Complete solutions includes PC-BaX for Windows 95/98, media, cleaning tape*, mains lead and terminator or parallel cable.

DAT40-DDS4 capacity is from 20GB to 40GB with compression. Portable and internal SCSI/LVD versions available with 360MB/min data throughput. Complete solutions includes PC-BaX for Windows NT Workstation, media, cleaning tape*, mains lead and terminator or parallel cable.

DLT (Digital Linear Tape) DLT employs a linear recording style, its tape path is the corner stone of this tape drive's reliability and performance. The DLT tape path system includes a single reel cartridge design, and a low stress head and tape path system, which makes the DLT ideal for demanding mission critical backups, providing 250,000 hours MTBF and up to 50,000 head life.

DLT4000 has a capacity of 20GB native to 40GB with compression, a SCSI Wide Ultra Single-ended/ Low Voltage Differential interface and is available as an internal or external unit. The Cristie DLT4000 is a complete solution, which includes PC-BaX for NT Workstation, media*, cleaning tape*, terminator and mains lead.

DLT8000 offers a capacity of 40GB native to 80GB with compression, a SCSI-2 Fast/Wide Single-ended/ Low Voltage Differential interface and is available as an internal or external unit. The Cristie DLT8000 is a complete solution, which includes PC-BaX for NT Workstation, media*, cleaning tape*, terminator and mains lead.

*Included only with external models.

Model	DAT DDS3	DAT DDS4	DLT4000	DLT8000
Interface	SCSI or Parallel	SCSI		SCSI III (68 pin)
Capacity	12/24GB	20/40GB		—
Transfer rate	2.2MB/sec with compression	6MB/sec with compression	30MB/sec with compression	12.0MB/sec with compression
Dimensions (W × D × H) External	153 × 97 × 324mm		175 × 165 × 325mm	
Weight	3.75kg		6.35kg	
Warranty	24 Months			

FOR MEDIA SEE PAGES 1041, 1042

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Cristie DAT 24 Portable (**External**)	64-31-63	649.00	➧	669.95	663.25
Cristie DAT 24 (**Internal**)	86-11-53	519.00	➧	529.95	526.77
Cristie DAT 40 (**External**)	64-54-13	699.00	➧	712.95	708.67
Cristie DAT 40 (**Internal**)	86-94-75	654.00	➧	665.95	661.95
Cristie DLT4000 (**Internal**)	86-30-86	1098.00	➧	➧	1110.00
Cristie DLT4000 (**External**)	86-17-59	1248.00	➧	➧	1262.00
Cristie DLT8000 (**Internal**)	64-22-99	2319.00	➧	➧	2325.00
Cristie DLT8000 (**External**)	64-70-57	2489.00	➧	➧	2495.00

OTHER ITEMS FOR DATA CARTRIDGE INDEX SEE PAGE 1035

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

TAPE DRIVES – TRAVAN

CRISTIE

Travan technology was developed by 3M, using QIC media standards. Travan technology has traditionally be aimed at the small office and home user, but the technology has recently been improved significantly and is now being adopted by a number of server manufacturers.

Travan USB

Cristie has developed their external Travan 8 and Travan 20 drives, with a USB (universal serial bus) interface. USB's major advantage is that it offers transfer speeds of up to 5 times as fast as parallel and simply fits on the USB port, unlike SCSI where you would first have to install a card inside the PC. Travan USB is supported by Windows 95 and will be compatible with Windows 2000.

Travan 8 – has a capacity of 4GB native to 8GB assuming 2:1 compression, and is available in a number of configurations, including internal IDE, external PCMCIA and USB. The Travan NS8 is available as a Portable (parallel/SCSI) or SCSI only external unit. The Cristie Travan is a complete solution, which includes PC-BaX for Windows 95/98, Media, Mains Lead and Terminator or Cable.



Travan 20 – offers a capacity of 20GB native to 40GB assuming 2:1 compression, and is available as an internal IDE, or SCSI and external USB or SCSI. The Travan is a complete solution, which includes PC-BaX, Media, Terminator and Mains Lead.

Model	Travan 8	Travan 20
Interface	Parallel/SCSI/USB/IDE/PCMCIA	USB/IDE
Capacity*	4-8GB	10-20GB
Transfer rate	Up to 60MB/min SCSI, USB Up to 12MB/min Parallel	Up to 100MB/min
Media	4-8GB (TR4)	10-20GB (TR5)
Dimensions (W×D×H)	153×324×97mm	
Weight	3.75kg	
Warranty	24 months	

*Dependent on data compression

USB is a 'real' plug and play device for 95/98 and will be compatible with Windows 2000. NT does not support Plug and Play.

DESCRIPTION	INTERFACE	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Travan 8 (TR4) Portable (**External**)	Parallel/SCSI	55-28-71	294.00	➧	299.95	298.15
Travan 8 (TR4) (**External**)	PCMCIA	64-16-41	222.00	➧	229.95	227.65
Travan 8 (TR4) (**Internal**)	IDE	55-28-88	149.00	➧	154.95	153.40
Travan 8 (TR4) (**External**)	USB	64-95-23	189.00	➧	194.95	193.00
Travan 20 (TR5) (**Internal**)	IDE	12-38-95	175.00	➧	179.95	178.15
Travan 20 (TR5) (**External**)	USB	12-10-84	215.00	➧	219.95	218.63

OTHER ITEMS FOR DATA CARTRIDGE INDEX SEE PAGE 1037

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

TAPE DRIVES – TRAVAN*

Seagate



Tapestor Travan High performance, cost effective solutions for workstations and small PC server environments. The Tapestor 8 and Tapestor 20 Travan drives, with capacities of up to 8 and 20GB. are the most cost-effective and reliable solutions for the high performance PC workstation environments. The Tapestor NS 8 and Tapestor NS 20 Travan NS drives, with capacities of up to 8 and 20GB, target network users who required a reasonably priced tape backup solution that matches the performance needs and cost requirements of the UNIX workstation and small PC server environments. The NS 8/NS 20 drives have read-while-write (RWW) data verfication that enables up to a 50% reduction in backup times and hardware data compression that reduces the CPU load, allowing the customers server system to perform other tasks. Compatible with most popular operating systems and software applications, Tapestor Travan products are backed by a two-year limited warranty. Like all Seagate tape products, the Tapestor Travan family is certified Year 2000 compliant.

Model	Tapestor 8GB		Tapestor 20GB	
Interface	ATAPI	SCSI	ATAPI	SCSI
Capacity (Native/Compressed)	4/8GB		10/20GB	
Transfer rate (max)	600Kbps		1000Kbps	
Media	QIC-3095-MC (TR-4)		QIC-3332-MC (TR-5)	
Weight	149 × 162 × 43mm			
Warranty	2 years			

DESCRIPTION	INTERFACE	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Seagate Tapestor 8GB Internal, Win 95 Software	ATAPI	82-80-00	145.00	▶	149.95	148.45
Seagate Tapestor 8GB Internal, NT Server Software	SCSI	12-10-63	249.00	▶	259.95	257.35
Seagate Tapestor 20GB Internal, Win 95 Software	ATAPI	52-99-29	176.00	▶	179.95	178.87
Seagate Tapestor 20GB Internal, NT Server Software	SCSI	55-43-36	289.00	▶	294.95	293.18

*Travan™ is a registered trademark of the Imation corporation.

OTHER ITEMS

FOR DATA CARTRIDGES INDEX SEE PAGE 1037

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

REMOVABLE STORAGE DRIVES — IOMEGA

The new 2GB higher capacity **Jaz drive** from **Iomega** replaces the 1GB version and offers super fast access time in a low cost and compact design. As well as its obvious applications for storage and backup, it can also be used as an external hard disk owing to its 7.35MB per second average transfer rate which is faster than many hard drives.
The Jaz drive is also ideal for portable and desktop PC users who are running out of hard disk space and do not wish to upgrade their current internal hard drive. It is also ideal for users involved in graphics markets where very large files are commonly used. The Jaz drive provides unlimited storage on multiple disks with excellent performance. While for audio and video capture, where editing and mastering requires very large and fast drives, these drives are already used within the industry.
Drives are available as internal devices connecting via a standard SCSI interface or an external version which can connect via PCMCIA, parallel port or SCSI PC card. A full suite of software is provided allowing easy back-up of both PCs and Mac, disk duplication, simple file location and various other useful tools.



DON'T FORGET YOUR MEDIA

Model	Internal Jaz	External Jaz
Interface	SCSI	
Average seek time	10msec read, 12msec write	
Transfer rate	7.35MB/sec	
Sustained back-up speed	4.92 to 8.7MB/sec	
Media	Iomega Jaz 2GB disks	
Contents	Jaz drive, Jaz Tools software, power adaptor, manual	
Dimensions (W × D × H)	120 × 210 × 40mm	137 × 220 × 38mm
Weight	0.9kg	1kg
Warranty	12 months return-to-base	

For further warranty and technical data please visit www.iomega.com

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Jaz External 2GB Drive	77-75-79	209.00	◗	215.95	213.79	
Jaz Internal 2GB Drive	68-16-18	209.00	◗	215.95	213.79	
ACCESSORIES						
Jaz Jet Ultra SCSI PCI card	68-16-49	57.50	59.95	59.35	58.76	
Jaz Jet Ultra SCSI ISA card	68-16-56	50.95	52.95	52.42	51.90	
Jaz PCMCIA SCSI-2 card	68-16-63	71.50	74.95	74.20	73.46	
Jaz Traveller SCSI to Parallel port adaptor	68-16-70	25.75	26.95	26.68	26.41	
Iomega Padded Carry Case	68-15-84	17.00	17.95	17.77	17.59	
2GB Jaz Disks PC (**3 pack**)	11-33-06	155.45	◗	159.95	158.35	
2GB Jaz Disks Mac (**3 pack**)	11-33-13	155.59	◗	159.95	158.35	
Jaz USB Adaptor	68-12-46	45.00	47.95	47.47	47.00	NEW

OTHER ITEMS

FOR IOMEGA MEDIA SEE PAGES 1039, 1040

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

REMOVABLE STORAGE DRIVES — IOMEGA



The **Iomega Zip Drive** is easy to install and can be used in the office, at home or 'on the road'. The SCSI version allows you to use additional peripherals.
The **250MB Zip Drive** has arrived. The most widely used portable data storage solution can now store up to 2½ times more. It is available as both SCSI, USB and Parallel versions and can read 100MB disks at up to 1.1MB/sec with a write speed of up to 0.2MB/sec. Zip 250MB Pro Kit parallel port comes with 4 250MB Zip Disk giving you 1GB of removable storage.
The **Zip ATAPI Internal** can rejuvenate your workstation by adding capacity and freeing hard disk space. As many businesses already use Zip drives, you can add compatibility, flexibility and security at a low cost and with the ease of use previously associated with the ageing 3½" drive.
The **Zip Drive USB** for Mac, benefits from all the advantages of a USB interface – easy set up, almost unlimited expandability, fast transfer rate and hot swap capability.
The **Amacom Baby Zip** is an ultra-slim PCMCIA Zip drive. It utilises standard 100MB Zip disks and is the ideal companion for the laptop user who needs to access Zip disks on the move. The Baby Zip can also be used via the parallel port of desktop computers with an optional cable.

Model	Ext. 250MB Zip	Zip Drive	Zip CD Ext USB	Amacom Baby Zip
Interface	IDE, SCSI USB Parallel	USB		PCMCIA or Parallel
Average seek time	29msec			Up to 125MB/sec
Transfer rate	Up to 1.7MB/sec	1.4MB/sec maximum	4x4x6x	1.4MB/sec
Back-up speed	Up to 100MB/min	Up to 60MB/min	4x	1.4MB/sec
Media	100 & 250MB Zip	Iomega Zip 100MB disks	CD-RW or CD-R	Iomega Zip 100MB disks
Contents	Zip drive, software, power adaptor, manuals	Zip drive, IomegaWare software, power adaptor, manuals	Drive, Manual, Cables	Drive, PCMCIA adaptor, manual
Warranty	12 months return-to-base			

DESCRIPTION	INTERFACE	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Iomega **250MB** Zip ATAPI (**Internal**)	IDE ATAPI	70-70-22	102.00	➧	104.95	103.90
Iomega **250MB** Zip (PC) (**External**)	Parallel	64-17-20	94.00	97.95	96.97	96.00
Iomega **250MB** Zip Pro Kit (**External**) (includes 4 disks)	Parallel	38-29-49	114.00	➧	117.95	116.77
Iomega **250MB** (PC/MAC) (**External**)	SCSI	64-17-37	94.00	97.95	96.97	96.00
Iomega **250MB** (PC/MAC) (**External**)	USB	70-17-61	111.00	➧	114.95	113.80
Iomega **Zip Drive** USB (**External**)	USB	63-35-18	77.00	79.95	79.15	78.36
Iomega Zip 250MB USB Drive PCMCIA Adaptor	—	69-30-86	23.00	24.95	24.70	24.45
Iomega Zip Disk – 250MB (5pk)	—	04-30-86	58.26	60.95	60.34	59.74
Iomega Zip Drive Carrying Case	—	81-66-03	15.00	15.95	15.79	15.63
Iomega Zip CD External USB 4x4x6x	—	22-52-20	181.00	➧	186.95	185.08
Amacom Zip® 100 Baby Drive (**External**)	PCMCIA	55-70-65	136.00	➧	139.95	138.55

OTHER ITEMS
FOR IOMEGA MEDIA SEE PAGES 1039, 1040

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FLOPPY DRIVES – LS-120

IMATION

The **LS120** drive is a form, fit and function replacement for current floppy drives. But why replace your existing drive? The LS120 delivers 80 times the capacity and five times the speed of existing 1.44MB drives. Moreover, at 120MB, you get the capacity needed for today's multimedia environments – without losing read/write compatibility with 720KB and 1.44MB floppy disks and since the a:drive utilises an industry-standard ATAPI IDE interface it's easy to integrate into any PC. In addition, the LS120 diskettes are the same size and shape as a 3½" floppy disk. As capacity and storage demands continually increase, the LS-120 becomes the next generational step in floppy drives.
Action offers LS120 drives from **Imation**.

The New **SuperDisk Internal Drive Upgrade Kit** from **Imation** is designed to directly replace your old floppy drive and includes 3 SuperDisk Diskettes – 120MB storage at a 680KB/sec transfer rate. Also included in the kit are LivePix Photo Editing suite (while stocks last), driver, cables and fixing screws.



For further warranty & technical data please visit www.imation.com

Model	Imation SuperDisk
Interface	IDE ATAPI/USB
Average seek time	70msec
Transfer rate	Up to 290KB/sec
Contents	Drives, cables, manual software 1 × LS-120 media
Warranty	12 months return-to-base

USB

DESCRIPTION	INTERFACE	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Imation SuperDisk LS-120 2x floppy drive (**External**)	USB	70-17-57	92.00	96.95	95.98	95.02
Imation SuperDisk LS-120 2 × floppy drive **for MAC (External)**	USB	70-17-60	95.00	99.95	98.95	97.96
Imation SuperDisk LS-120 Upgrade Kit 3 pack media (**Internal**)	IDE ATAPI	64-34-29	65.00	67.95	67.27	66.60
Imation SuperDisk LS-120 Formatted Diskette (**DOS – 5pk**)	—	11-27-30	38.18	39.95	39.55	39.15
Imation SuperDisk LS-120 Formatted Diskette (**DOS – 10pk**)	—	11-27-47	61.89	64.75	64.10	63.46

OTHER ITEMS
FOR LS-120 DISKS SEE PAGE 1044
FOR FULL RANGE OF MEDIA SEE PAGES 1035–1071

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

REMOVABLE MEDIA — IOMEGA





The **Iomega® Clik!™ Drive** for Digital Cameras is an ideal solution for your digital camera! It helps answer two of the biggest problems encountered by digital camera users — taking as many photos as you like and download time. The Clik! Drive for Digital Cameras makes it this easy:

- Download the images from your camera's removable memory card to a 40MB Clik!™ disk using the Clik! Flash Memory Reader that snaps on to your Clik! mobile drive.
- Pop the memory card back in your camera and keep shooting. You can also download your images directly to your PC with the Clik! drive to review, select, and print your picture. Or you can store your images on 40MB Clik! disks — like a digital roll of film.

Clik! Bundle contents:

Clik! Mobile Drive: Weighing less than six ounces, the mobile drive is the connection between your mobile PC and 40MB Clik! disks.

Clik! Disk: The 2 × 2″ disk holds 40MB of data. That's a lot of presentations, text documents, and e-mails.

PC Card Interface: Fits into the Type II PC slot on your mobile PC and connects to your Clik! Mobile Drive. Allows speed access to all the data stored on Clik! disks. You can recharge your battery by connecting the power cord to your PC Card cable.

Rechargeable Battery: With your nickel-metal hydride (NiMH) rechargeable battery attached to your Clik! Mobile Drive, you can transfer data from your Clik! disks to your mobile PC. Weighing only a few ounces, the battery can be recharged in only four hours in the Clik! Desktop Docking Station.

Desktop Docking Station: Move information easily between your mobile PC and desktop PC with the Desktop Docking Station. Simply connect the dock to your parallel port. Place the Clik! Mobile Drive in the dock and you can quickly transfer data from the Clik! disk to your desktop machine or vice-versa. The Desktop Docking Station also serves as the recharging station for your Clik! rechargeable battery when attached to the mobile drive.

Parallel Port Interface/Power Cord: Makes installation fast and easy. The special power/connector cable allows for pass-through operation of another parallel port device, such as a printer.

There's no safer way to copy your documents or to take them on the road with you and when you return, it's quick and easy to transfer any captured information from your Clik! disk to your desktop.

The Clik! PC Card Drive slots into a notebook's Type II card slot, and with the battery-powered external Clik! Plus drive, you can move files between mobile devices and your desktop faster than ever. You can even transfer data between a digital camera and your computer via the Clik! Drive flash Memory Reader.

Iomega built the Clik! PC Card Drive and Disks for teamwork. They let you share ideas and information quickly and cost-effectively, and look set to become the mobile data currency of the new Millennium.

For further warranty and technical data please visit www.iomega.co.uk

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Clik Bundle (includes PC Card Adaptor, Clik drive, Parallel cable, and docking station)	70-70-21	179.95	▶	184.99	183.14
Clik PC Card Drive (PCMCIA)	70-22-63	116.72	▶	119.99	118.79
Clik Disk (4 pack)	23-30-90	31.49	32.95	32.62	32.29
Clik Disk (10 pack)	23-53-47	67.95	69.50	69.29	69.19

OTHER ITEMS FOR ZIP DRIVES SEE PAGE 276

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

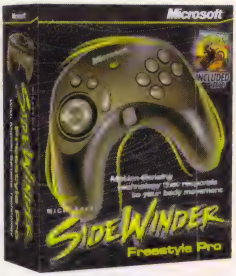
JOYSTICKS — Microsoft — RUWIDO

Microsoft SideWinder Force FeedBack Pro



- True to life feedback – from subtle sensations to raw power forces.
- 16-bit on-stick processor providing rapid information transfer between joystick buttons.
- The digital optical camera built-in, provides pinpoint accuracy, optimal speed and no drift.

Microsoft SideWinder Freestyle Pro



- Breakthrough technology delivers lightning fast, accurate game control.
- Solid state motion tracker can be switched on or off with a single button.
- Performs as a joystick with analogue style control and the D-card functions as an 8-way hat switch or provides the digital precision of a game pad.
- Record up to 32 game button and movement combo.
- Plug into game port or USB outlets.

Microsoft SideWinder Precision Pro



- True to life feedback.
- 16-bit on-stick processor providing rapid information transfer between joystick and game.
- Program your best moves into 16 joystick buttons.
- Built-in digital optical camera.

Microsoft SideWinder Force Feedback Wheel USB

- Feel all the subtle bumps, g-forces and devastating crashes in any Microsoft DirectX® 5.0 compatible game.
- Get a more realistic driving experience.
- Use one or both feet on the sturdy, slip-resistant pedals – giving you realistic action and response.
- Digital optical feedback.

The Cyberclick from **Ruwido** is a single controller, which can operate across a wide band of business and domestic applications.



PC User

- Ultra fast opening and closing of programs through its numeric keypad (up to 34 functions).
- 360 degree mouse with 3 'fire' buttons.
- Excellent control of PowerPoint presentation through its Infrared cordless capability.
- The device allows instant access to the Web.

Domestic Uses

- Will operate over 7000 devices from hundreds of different manufacturers.
- These include, TV, Satellite, VCR, CD, Tape and Tuner.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
MS SideWinder Force Feedback Pro Joystick	89-71-03	72.00	75.95	75.19	74.44	
MS SideWinder Precision Pro Joystick	69-80-34	26.00	27.95	27.67	27.39	
MS SideWinder Freestyle Pro	62-53-68	26.00	27.95	27.67	27.39	
MS SideWinder Force Feedback Wheel USB	12-11-53	82.00	85.95	85.09	84.24	NEW
Ruwido Cyberclick Advanced Remote	41-46-38	41.00	42.95	42.52	42.10	

OTHER ITEMS

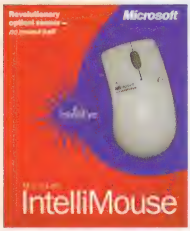
FOR WRIST RESTS SEE PAGE 506

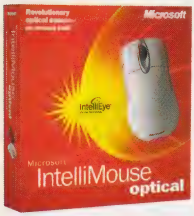
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MOUSE PACKAGES

Microsoft







The **IntelliMouse** and **Intellimouse Explorer,** both with IntelliEye, replace the rubber-ball mechanism of a traditional mouse with an optical sensor that scans your desktop 1,500 times per second for pinpoint accuracy.

- Smooth, accurate mouse movement.
- Works on virtually any surface including wood and plastic, without the need for a mouse mat.
- Includes the IntelliMouse Wheel to enable zooming and smooth scrolling for increased work efficiency.
- The sculpted shape supports your hand, and the rubberised sides are flared for a comfortable grip.
- Unique titanium colour with glowing red underbelly for the latest in modern mouse design and comfort. (Explorer)
- Advanced IntelliEye™ optical technology gives you superior precision.
- Sealed optical sensor – no mouse ball or moving parts to clean or wear out.

Microsoft IntelliMouse — the Mouse with ultimate control and comfort
Works as a normal Mouse 2.0 with all other PCs and software. The front-weighted ball, improved internal mechanisms and solid tactile feel gives you precise control of the cursor.

Microsoft® IntelliMouse™ Optical – The hassle-free mouse with an eye for precision.

- **Easy Internet navigation –** Browse the Web without using toolbars or the keyboard, or you can program the buttons to execute routine actions in many of your favourite programs.
- **Feels and moves great in any hand –** The shape of the mouse supports your hand and encourages natural posture.
- **No mouse ball. No mouse pad –** IntelliMouse Optical works on hundreds of work surfaces.

Model	Microsoft IntelliMouse/Pro	Microsoft IntelliMouse w/IntelliEye	Microsoft IntelliMouse Explorer
Interface	Serial 9-way, PS/2	USB, PS/2	
Resolution	400dpi	Scans desktop up to 1500 per second	
Control Type	2 buttons, 1 wheel	3, 1 Wheel	5, 1 Wheel
Compatibility	Microsoft WIN 95/98, NT, MS-DOS		
Software included	Microsoft IntelliPoint		
Warranty	12 months swap out via Microsoft direct		

Windows 95 PLUG PLAY

	DESCRIPTION	INTERFACE	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	Microsoft IntelliMouse	Serial 9-way, PS/2	97-64-57	17.77	19.95	19.35	18.77
✂	Microsoft IntelliMouse – 5pk	Serial 9-way	97-64-64	69.95	79.95	77.55	75.22
✂	Microsoft IntelliMouse with IntelliEye	USB, PS/2	36-99-48	22.95	25.95	25.17	24.42
✂	Microsoft IntelliMouse with IntelliEye – 5pk	USB, PS/2	52-99-02	84.95	89.95	89.05	88.16
NEW	Microsoft IntelliMouse Optical	USB, PS/2	64-78-64	26.45	27.95	27.67	27.39
	Microsoft IntelliMouse Explorer	USB, PS/2	38-29-25	32.99	34.95	34.60	34.25

OTHER ITEMS
FOR MOUSE MATS & WRIST RESTS SEE PAGES 506, 507

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

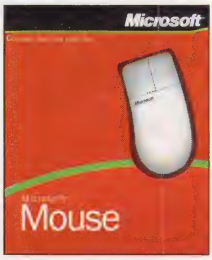
MOUSE PACKAGES

Microsoft

Mouse 2.0 is now supplied with **Microsoft's IntelliPoint software**, saving time and hand movements with many useful functions including:



- Comfort you can rely on at home or in the office.
- Smooth, accurate control and responsive 'click'.
- Comfortable design and easy hold in either the left or right hand.
- Extremely popular mouse with proven reliability
- Easy connection via the round PS/2 or Serial port.

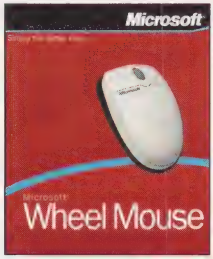




Microsoft® Wheel Mouse

- Advanced features and excellent value, ideal for the home PC.
- Innovative wheel for easy scrolling on screen.
- Fast, simple set-up and easy to use.
- Comfortable for left or right handed children or adults.
- Easy connection via the round PS/2 or Serial port.





The **Cordless Wheel Mouse** features advanced, two channel radio technology for dependable, accurate tracking – even when your PC is positioned under the desk, out of sight.

- No mouse cord means no tangles.
- Reliable digital multi-channel radio technology.
- The cordless mouse works up to five feet away from the receiver base.
- No Line of sight is necessary for the mouse to work. The unique digital technology works reliably anywhere on your desktop.
- Includes the IntelliMouse Wheel to enable zooming and smooth scrolling for increased work efficiency.
- Cordless freedom at an affordable price.
- Comfortable sculpted shape and the curved sides makes it easy to use in either left or right hand.
- Plugs into the PS/2 or 9-pin serial port.



Model	Mouse 2.0 Combi IP	Wheel Mouse	Cordless Wheel Mouse
Interface	Serial 9-way, PS/2		
Control Type	2 buttons	2 buttons, 1 wheel	
Compatibility	Microsoft Mouse		
Software included	Microsoft IntelliPoint		
Warranty	12 months swap out via Microsoft direct		

DESCRIPTION	INTERFACE	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Microsoft Mouse 2.0 Combi IP Version	Serial 9-way, PS/2	78-55-52	21.95	22.95	22.72	22.49
Microsoft Mouse 2.0 Combi IP Version (**5 pack**)	Serial 9-way, PS/2	05-50-55	96.25	99.95	98.95	97.96
Microsoft Wheel Mouse	Serial 9-way, PS/2	69-76-26	13.99	14.65	14.50	14.36
Microsoft Cordless Wheel Mouse	Serial 9-way, PS/2	53-77-46	19.95	20.95	20.74	20.53

OTHER ITEMS
FOR MOUSE MATS AND WRIST RESTS SEE PAGES 506, 507

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MOUSE PACKAGES

Microsoft

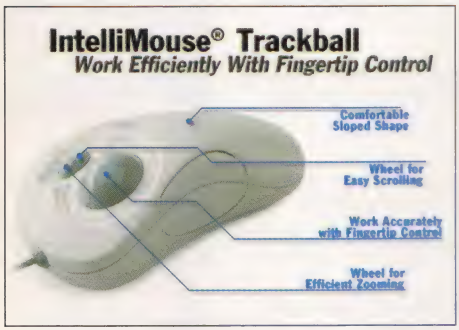


Basic Mouse joins the Microsoft family of solidly built, high quality hardware products. For a great value, easy setup, and Microsoft reliability, it's truly the easy choice.

- The easy choice, ideal for the home PC.
- Fast, simple set-up and easy to use.
- Comfortable for large or small hands to cater for both adults and children.
- Solid and built to strict Microsoft standards.
- Easy connection via the round PS/2 or Serial port.

Model	Microsoft Basic Mouse
Interface	Serial 9-way, PS/2
Control Type	2 Buttons
Compatibility	Microsoft Mouse
Drivers supplied	Windows
Software included	IntelliPoint – Home Edition
Warranty	12 months swap via MS direct

There is an option available within Windows which enables you to change your mouse from right hand to left hand use.

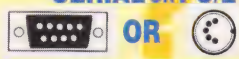


The **Microsoft IntelliMouse Trackball** incorporates an IntelliMouse scroll wheel with an advanced ergonomic trackball design.

- **Comfortable Sloped Shape**
  IntelliMouse® Trackball fits your hand and supports it in a natural position. You control the pointer without moving your wrist or arm, so you're more relaxed while you work.
- **Work Accurately With Fingertip Control**
  Unlike trackball products that require you to maneouvre the ball with your thumb, IntelliMouse Tracball is controlled with your index finger for better accuracy and precision.
- **Wheel for Easy Scrolling**
  Simply roll the wheel forward or backward instead of clicking on scroll bars. Or work hands-free with AutoScroll. Press the wheel, then watch your document scroll automatically.
- **Wheel for Efficient Zooming**
  Just hold down the control key and roll the wheel to see either close-up or big-picture views – there's no need to use menus or toolbars.
- **Three-year Hardware Warranty.**

To use a 2 button Mouse you need MS-DOS 3.1 or Win 3.1 or later. For Wheel functionality you need Win 95/NT 3.51 or later.

DO YOU KNOW WHICH INTERFACE YOU NEED
SERIAL OR PS/2



DESCRIPTION	INTERFACE	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Microsoft Basic Mouse	Serial 9-way, PS/2	62-29-52	9.99	10.95	10.84	10.73
Microsoft Basic Mouse (**2 Pack**)	Serial 9-way, PS/2	06-30-92	18.95	19.95	19.75	19.55
Microsoft IntelliMouse Trackball	Serial 9-way, PS/2	88-76-49	14.25	15.99	15.51	15.04

OTHER ITEMS
FOR MOUSE MATS AND WRIST RESTS SEE PAGES 506, 507

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MOUSE PACKAGES — LOGITECH

Cordless MouseMan Wheel

Logitech® Cordless MouseMan Wheel combines cordless freedom of movement with a sleek, contoured shape that offers unique soft-touch sides. Logitech's advanced digital radio technology eliminates the struggle with cords, works in a two-metre (six-foot) range without being pointed at the computer, and performs on desks crowded with cups, books and papers. The wheel provides easy scrolling in Windows and on the Web, and the added convenience of a fourth mouse button. Easily customise the buttons with time-saving shortcuts. Smart power management helps the included AAA batteries last at least six months.

- Move freely; no struggling with cords.
- No need to point at the computer.
- Sleek, contoured shape with soft-touch sides.
- Easy-scrolling wheel for Windows.
- Five year guarantee.



MouseMan Wheel

Designed for performance and comfort
The **MouseMan Wheel** is the forerunner of a new generation of mice, helping you to work even more efficiently. Its high-precision wheel enables you to scroll in all Windows 95 applications and zoom in Microsoft Office 97 without using the keyboard. Its curved shape and gently sloping top are designed to let your hand rest in a comfortable, relaxed position. Enhanced precision and one-click commands reduce repetitive actions. With its one-handed control, the wheel button allows you to glide effortlessly over your document without using the keyboard. Includes a three year guarantee.

For further warranty & technical data please visit www.logitech.com





Model	MouseMan Wheel	Cordless Wheel Mouse
Interface	USB, PS/2	Radio
Control Type	4 buttons, 1 wheel	2 buttons/1 wheel
Compatibility	Microsoft	
Software included	Mouseware 7.3	Mouseware 8.03
Warranty	3 years return-to-base	

Note: Software Year 2000 Compliance – Status Unknown
USB requires Win 98 or MAC OS 8.5 or later.

DESCRIPTION	INTERFACE	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Cordless MouseMan Wheel	Radio	62-30-86	34.45	35.95	35.59	35.23	✂
Cordless Wheel Mouse	Radio	55-76-32	21.25	23.95	23.23	22.53	
MouseMan Wheel	USB/PS2	64-17-75	20.45	21.95	21.73	21.51	✂

OTHER ITEMS FOR MOUSE MATS SEE PAGES 506–507

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

MOUSE PACKAGES

LOGITECH



The **Logitech Pilot Mouse** is a low cost device ideal for first time users. It comes complete with Windows and DOS mouse control panels for easy configuration.
It's available with Serial & PS/2 interfaces providing the user with the extra flexibility of 3 buttons.
This combo version is available as either a **2 or 5 pack purchase**.



Pilot Wheel Mouse is designed to fit the right or left hand comfortably. Its unique wheel button provides full wheel functionality in Microsoft Office 97. You can customise the third button with one-click commands such as double-click, cut and paste in Windows 95 and Windows 3.1.

www.logitech.com

Model	Pilot Mouse	USB Wheel Mouse
Interface	Serial 9-way & PS/2	USB/PS/2
Compatability	Microsoft Mouse	
Control Type	3 buttons	2 buttons+1 wheel
Software included*	MouseWare 8.03	MouseWare 8.1
Warranty	12 months return-to-base	

* Software Year 2000 compliance – Status Unknown.

DO YOU KNOW WHICH INTERFACE YOU NEED
SERIAL OR PS/2



There is an option available within Windows which enables you to change your mouse from right hand to left hand use.

DESCRIPTION	INTERFACE	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Pilot Mouse Combo (**2 pack**)	Serial 9-way & PS/2	04-49-51	19.55	21.95	21.29	20.65
Pilot Mouse Combo (**5 pack**)	Serial 9-way & PS/2	06-08-40	44.55	49.95	48.45	47.00
Pilot Wheel Mouse	USB/PS/2	55-76-56	15.99	17.95	17.41	16.89
Pilot Wheel Mouse for iMac	USB	31-35-52	16.99	18.95	18.38	17.83

OTHER ITEMS
FOR MOUSE MATS AND WRIST RESTS SEE PAGES 506–507

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

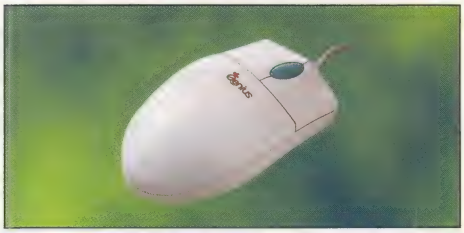
MOUSE PACKAGES

Genius



Genius NetMouse Pro

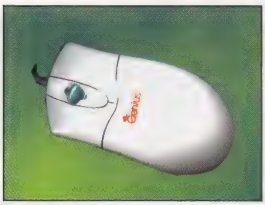
- The ultimate device for browsing the Internet, Windows and long documents.
- Eliminates over 30% of mouse clicks and movements.
- 'Magic Button' & Side-Button replaces scroll bars.
- Ergonomic design for comfort.
- Supports Office 97, Internet Explorer and Windows applications.



EasyMouse+ (5 pack only)

- Auto-Panning function: lets you move in any direction in the document.
- Zoom In/Out function.
- Button-assignments functions let you browse in all Windows platforms (Windows 3.x/95/NT).

Genius®



NewScroll

- Complete control with one finger.
- Unique scroll design makes scrolling easy.
- Auto-browsing function.
- EasyJump feature lets you open eight special functions quickly.
- Supports Win 3.x/95/98/NT.



Genius NewScroll Wireless

- Reliable RF technology design.
- Two separate channels in 27MHz band.
- Works up to five feet away.
- Two standard AAA batteries.
- Auto-turn off function in 45 seconds.



Genius EasyScroll

- The ultimate tool for increasing Windows and Internet productivity.
- Side-button for switching in applications and auto-scrolling.
- Powerful "roller" makes scrolling easy.
- New 'programmable' five button design.
- Supports Office 97 and Internet Explorer with new one-step zoom.

DESCRIPTION	INTERFACE	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Genius NetMouse Pro **(3 pack)**	Serial 9-way & PS/2	04-81-72	20.45	22.95	22.26	21.59	
Genius EasyMouse+ **(5 pack)**	PS/2	06-38-72	16.88	18.95	18.38	17.83	
Genius EasyMouse+ **(5 pack)**	Serial	06-48-88	16.88	18.95	18.38	17.83	
Genius EasyMouse+	USB	10-53-44	8.90	9.99	9.69	9.40	
Genius NewScroll	PS/2 & Serial	62-86-02	11.54	12.95	12.56	12.18	
Genius Newscroll Wireless	—	62-08-38	26.68	29.95	29.05	28.18	NEW
Genius Netscroll Optical	—	62-38-98	26.68	29.95	29.05	28.18	NEW

OTHER ITEMS

FOR MOUSE MATS AND WRIST RESTS SEE PAGES 506, 507

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

TRACKBALL DEVICES — LOGITECH

The Logitech Trackball Family

For optimum precision and smooth motion without the constant hand and wrist movement of a mouse, Logitech trackballs give you a new choice in comfort and control. These sleek, intuitive devices add new levels of comfort and control to your computing experience. Each model is contoured to fit your hand as well as your specific interface needs.



Logitech Trackman Marble Wheel



Logitech Marble Mouse



Trackman Marble FX



Trackman Live!

Model	Logitech Trackman Marble FX	Logitech Trackman Marble Wheel	Logitech Marble Mouse	Logitech Trackman Live!
Interface	Serial 9-way & PS/2	USB & PS/2	Serial 9-way & PS/2	Radio + Serial/PS/2
No of buttons	4	3 button/1 wheel/1 ball	3	3/1 Ball
Compatibility	Win 3.1/Win 95	Win 95, 98, NT, MAC	DOS, Win 3.1/Win 95 98/NT	Win 3.1x, 95, 98, NT
Software included	Mouseware	Mouseware 8.0	—	—

USB requires Win 98 or MAC OS 8.5 or later.

DESCRIPTION	INTERFACE	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Logitech Trackman Marble Wheel	USB/PS/2	52-99-67	29.99	33.95	32.93	31.94
Logitech Trackman Marble FX	Serial 9-way/PS/2	68-62-97	32.99	36.95	35.84	34.77
Logitech Marble Mouse	Serial 9-way & PS/2	62-35-04	19.45	21.95	21.29	20.65
Logitech Trackman Live!	Radio	22-49-50	61.95	64.95	64.30	63.66

OTHER ITEMS
FOR MOUSE MATS & WRIST RESTS SEE PAGES 506–507

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

KEYBOARDS & USB MOUSE

BELKIN



Classic Keyboard
This keyboard still has the familiar layout that you are used to. Using a QuitType™ membrane with soft tactile keys will ensure you ease of use and a comfortable feel.
- Time saving Windows®98 'Hot' Keys.
- 'Turbo' key for adjusting the cursor speed for backspacing, deleting or using the arrow keys.
- QuitType™ membrane offers quiet, tactile operation.



ClassicMouse USB
- For use with USB equipped PCs.
- Full three-button functionality.
- Perfect for right or left handed users.





MediaBoard
- 20 external 'Hot Keys' allow one touch access to popular features and programs, plus 3 Windows 98 Hotkeys.
- 105-Key layout provides a contoured design with maximum compatibility and function.
- Includes detachable ergonomic wrist rest for optimum comfort.
- QuietType tactile membrane noiseless keyboard.

ErgoBoard
The large contoured wrist rest allows you to relax when you are not typing, thus helping to prevent Repetitive Motion Disorder. See how your hands naturally position themselves at a slight inward angle, like the ErgoBoard™ Natural Design Keyboard.
- Time saving Windows®98 'Hot' Keys.
- 'Turbo' key for adjusting the cursor speed for backspacing, deleting or using the arrow keys.

NetMaster™ Scroll Mouse
- Revolutionary wheel design for scrolling both vertically and horizontally.
- Sleek ergonomic design.



USB

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Belkin MediaBoard (PS/2) Keyboard	53-00-84	19.99	22.95	22.26	21.59
Belkin MediaBoard (USB) Keyboard	53-17-17	21.99	24.95	24.20	23.48
Belkin Classic Keyboard (Win 98)	10-22-64	13.80	15.49	15.03	14.57
Belkin Ergoboard	10-12-47	35.59	39.95	38.75	37.59
Belkin ClassicMouse USB **2 pack**	04-27-75	21.35	23.95	23.23	22.53
Belkin NetMaster Scroll Mouse USB **2 pack**	04-36-82	15.99	17.95	17.41	16.89

OTHER ITEMS
FOR MOUSE MATS AND WRIST RESTS SEE PAGES 506, 507

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

GRAPHICS TABLETS

WACOM



The Graphire Mouse
Exceptional precision and ergonomic efficiency coupled with the face that it has no ball, batteries or cords. The Graphire mouse has all the features of a high end mouse, scrolling wheel for intellimouse action, programmable buttons and a perfect ergonomic design, and with no ball to get dirty.

FREE Software
Four Software applications are included. The software is more than just an add on, the user is able to exploit the true potential of the Graphire Tablet.

- Best selling MetaCreations PainterClassic, draw and sketch naturally and edit images with ease.
- PenOffice SE allows the user to add handwritten notes and comments into Word 97/2000, and attach a scratchpad to e-mails.
- Pentools, a plug-in for Photoshop, Painter, Painter Classic and Corel allows the user to Paint filter effects into images with the pressure sensitive pen.
- Cyber-Sign the most secure screensaver around where the user signs their name to unlock their screen.

Model	Graphire Pen:
Weight	11g
Length of pen	145mm
Technology	Cordless
Pressure-sensitivity	512 levels
Eraser	On end of pen
Buttons	2, programmable

Model	Graphire Mouse:
Weight	68g
Dimensions	60 × 34 × 125mm
Technology	Cordless
Buttons	3, programmable
Scrolling wheel	With Intellimouse function
Resolution	1000dpi

Wacom's **NEW Graphire** tablets is the all-round solution, from Web-browsing to retouching, from illustration to Office. Its winning mouse and pen combination means you always have the right tool at hand. Switch on to the benefits of the unique Graphire set – for precise pointing and clicking, for intuitive drawing, for sketching and writing.

- 1,000dpi resolution, for precision input.
- Supports the ball-free, cordless Graphire Mouse and the cordless, pressure-sensitive Graphire Pen.
- Integrated detachable stand for the Graphire Pen.
- Transparent overlay – simply place artwork under it for tracing.
- Ergonomic design for either hand.
- Available with serial or USB interface.
- Fully compatible, with user-friendly driver software for Windows and Mac.

When you hold a Graphire Pen, you're holding creative freedom. No cords or batteries – it just feels right in your hand. Before you know it you'll be using the pressure-sensitive tip to paint and sketch in graphics programmes, with 512 pressure levels helping you to create the coolest effects. You can even erase things exactly as you would if you were using a pencil – by simply turning the pen around. Create handwritten notes on your computer, sign your letters and e-mails. In other words, do whatever comes naturally and use your Graphire Pen like any other pen.

The Graphire Pen
A pressure-sensitive pen for easy, natural painting, drawing and writing and for retouching. The Graphire Pen has 512 levels of sensitivity and the pressure sensitive tip can be used to paint and sketch in many Graphics programmes helping you to create the coolest effects. By simply turning the pen around you can erase things, just as if they were using a pencil.

Model	Graphire Tablet:
Active area	128 × 92mm
Dimensions	200 × 9 × 210mm
Weight	371g (serial)/250g (USB)
Resolution	1,000dpi
Transparent overlay	Included
Pen stand	Detachable
Interface	RS-232C or USB
Guarantee	2 years

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Graphire A6 Graphics Tablet – USB	77-83-07	67.00	69.95	69.25	68.56
Graphire A6 Graphics Tablet – Serial	31-35-37	67.00	69.95	69.25	68.56

OTHER ITEMS
FOR MOUSE MATS & WRIST RESTS SEE PAGES 506, 507

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

FINGERPRINT RECOGNITION

KEY TRONIC

Protects critical data on PC'S and Networks



This system uses fingerprint recognition instead of passwords, to allow or deny access into a desktop computer. Fingerprint recognition is the most user friendly, lowest cost and most reliable solution in biometrics.
Upon installation, the software leads the user through a one-minute enrolment process. The Key Tronic Scanner Keyboard features a high-resolution camera, which captures an image of a fingerprint, converts the image into a template and stores it on the network.
The Secure Scanner Keyboard eliminates the need for all passwords. Once the user is enrolled, they simply place their finger onto the scanner. The system will perform a verification process by comparing the currently scanned finger with the previously enrolled fingerprint.
The entire verification process happens almost instantaneously.

Reader Technology
Optical CMOS (camera). Indenticator Technology DFR 200.

Port Requirements
Parallel Port (Bi-directional, ECP/EPP) if parallel port is already occupied an optional I/O card may be used.

Package Contents
Scanner Keyboard, Users Guide, Secure Log on CD.

Replacing everyone's password with their fingerprint will offer speed and security. Fingerprints are never lost, stolen or duplicated.

- **Security** – Access granted **only** if you are who you say you are!
- **Convenience** – Reduce administration time.
- **Costs** – Up to 50% less than passwords.
- **Speed – Faster** than password input.
- **Accuracy** – 100% error elimination.
- **Simple** – Easier to manage than conventional password systems.
- **Compatible** – Win 95, 98, NT V.40.



- BioLogon Client software included with both packages.
- Connects via standard parallel and PS2 port.
- 105 key keyboard layout.
- 3 Windows 95/98 keys.
- Euro Symbol included.
- 3 Year Limited Lifetime Warranty.
- Height 40mm, Length 530mm, Depth 168mm.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Keytronic Keyboard with Scanner	60-78-58	154.00	◗	159.95	158.35
Keytronic Standalone Scanner	92-87-03	125.00	◗	129.95	128.65

OTHER ITEMS
FOR KEYBOARDS SEE PAGES 290–293

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

KEYBOARDS

Microsoft



Microsoft Natural Keyboard Elite

- The most comfortable way of typing is now within reach.
- Designed to ensure a relaxed, natural typing position.
- Built-in palm rest to ensure hands can rest in a comfortable place.
- Save time with easy shortcut keys for Windows 95 and Windows 98.
- Supports the new Euro currency symbol to ensure easy, efficient data entry for the new European currency.
- Easy connection via the PS/2 or Serial port.



Microsoft Natural Keyboard Pro

- Get one-touch access to popular Windows features such as My Computer or the Calculator. Customise these two Hot Keys to launch your favourite programs, documents or web sites using Microsoft IntelliType Pro software.
- Use the Sleep Hot Key to suspend your work then resume later – without having to restart your computer.
- PS/2 compatible keyboard.



Microsoft Internet Keyboard

- Launch your browser and surf the web directly from your keyboard.
- Open your e-mail program and check messages with the E-mail Hot Key – a single keystroke is all it takes to access your electronic mailbox.
- Control your music CDs, PC audio and video directly and easily from your keyboard.

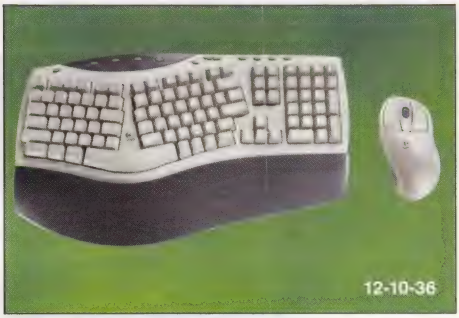
DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
✂ Microsoft Natural Keyboard Elite	62-40-60	21.95	22.95	22.72	22.49
✂ Microsoft Natural Keyboard Pro	12-10-55	28.99	29.95	29.65	29.35
✂ Microsoft Internet Keyboard	52-99-05	14.29	14.95	14.80	14.65
NEW Microsoft Internet Keyboard Pro	55-38-95	26.75	27.95	27.67	27.39

OTHER ITEMS
FOR WRIST RESTS SEE PAGE 506
FOR OFFICE PRODUCTS SEE PAGES 459, 533

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

KEYBOARDS

LOGITECH



Cordless Desktop Pro
Free yourself from tangled cords with our cordless keyboard designed for easier typing and our innovative soft-touch cordless whell mouse. Radio technology works without pointing at the computer. Includes convenient iTouch™ Internet and multimedia control.



The **Cordless iTouch Keyboard** has convenient Internet and multimedia control. You can access the Internet, search, play CDs, MP3 and Windows® media files, adjust volume and more with one touch of a key. Radio technology works without a clear path or pointing at your computer.



Cordless Desktop iTouch + Mouse
No more cables in your way with this unique cordless keyboard and mouse combination. iTouch is easy for Internet and multimedia control and digital radio technology works without pointing. The mouse is designed to fit right and left hands. Gently curved palm rest to relax your hands or remove for extra space.



Logitech's Deluxe 104/105 Keyboard has a detachable palm rest to provide comfort and flexibility and a unique spill-resistant design to protect against minor spills. It also has time-saving Windows 95 'hot-keys'.

DESCRIPTION		Web Price	PRICE EACH (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Logitech Internet Keyboard	52-95-26	17.77	19.95	19.35	18.77	
Logitech Cordless iTouch Keyboard	39-61-21	41.00	42.95	42.52	42.10	✂
Logitech Cordless Desktop iTouch + Mouse	22-52-06	49.95	59.95	59.35	58.76	✂
Logitech Cordless Desktop Pro Mouse + Keyboard	12-10-36	71.50	74.95	74.20	73.46	✂
Logitech Deluxe 104/105 Keyboard	55-76-49	11.50	12.95	12.56	12.18	✂

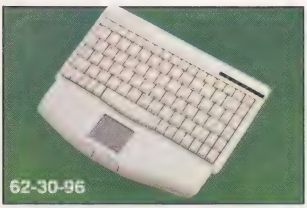
OTHER ITEMS
FOR WRIST RESTS SEE PAGE 506
FOR OFFICE PRODUCTS SEE PAGES 459–533

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

KEYBOARDS — LOGITECH ACCURATUS



The **KT 2001 Ergoforce** keyboard.
- Incorporates Ergoforce, a unique patented technology maximising user comfort.
- Exclusive MPR II spacebar enhanced environmental safety.
- Premium Key Tronic Keyboard.
- Includes new Euro Currency Symbol.
- 5 year warranty.



Accuratus 540 Keyboard
- Designed for Windows 95/98/NT.
- IBM AT and PS2 compatible.
- 89 keys with full function of 105 keys Windows layout.
- Integrated 2 button Glidepoint Touchpad.
- Highly reliable membrane contact technology.
- 2 year RTB warranty.
- Euro currency ready.
- Dim: 289 × 227 × 27mm Weight: 0.72kg.



The **KT 900** keyboard.
- Light and positive action keys.
- Angled enclosure design for greater comfort.
- Includes new Euro Currency Symbol.
- 3 year warranty.



Accuratus Keypad
- 17 key numeric keypad.
- IBM PS2 Auxiliary Device Connector Compatible.
- Internal Low Power Microprocessor.
- 10 Million Lifetime keyswitches.
- No Extra Power Supply Required.
- 1 year warranty.

EURO CURRENCY READY €



The **KT 800** keyboard.
- Includes Euro Currency Symbol.
- 2 year warranty.



Accuratus 580 Infra Red Keyboard
- Designed for Windows 96/98/NT.
- IBM AT and PS2 compatible.
- 89 keys with full function of 105 key Windows layout.
- 16 hot keys for easy access to WWW, e-mail Track selection, volume contro. and calculator.
- 6 programmable keys.
- Integrated 2 button pointing device.
- Highly reliable membrane contact technology.
- 2 year RTB warranty.
- Euro currency ready.
- Dim: 338 × 168 × 33mm Weight: 0.70kg.

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	Key Tronic KT800	53-76-71	19.11	19.99	19.79	19.59
	Key Tronic KT900	64-76-84	22.23	24.95	24.20	23.48
	Key Tronic KT2001	90-52-09	32.00	36.95	35.84	34.77
	Key Tronic KT2000 (Standard) (**2 pack**)	04-38-23	67.67	75.95	73.67	71.46
	Key Tronic KT2000 (Windows 95) (**2 pack**)	04-38-47	80.14	89.95	87.25	84.63
NEW	Accuratus 540	62-30-96	47.74	49.95	49.45	48.96
NEW	Accuratus 580 Infra Red	62-53-52	53.41	59.95	58.15	56.41
NEW	Accuratus Keypad	62-94-80	33.41	34.95	34.60	34.25

OTHER ITEMS FOR WRIST RESTS SEE PAGE 506

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

KEYBOARDS & USB MOUSE — ACCURATUS



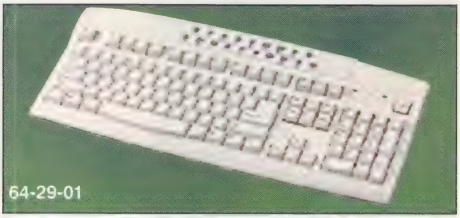
ACC295W (06-39-15)
High quality, standard full sized keyboard
- ACC295 Upgrade – Includes additional Hot Keys allowing direct access to WWW, E-mail and Sleep functions.
- Designed for Windows™ 95
- IBM AT and PS/2 compatible
- Enhanced 105 key keyboard
- Soft touch, silent, with tactile feedback
- Highly reliable membrane contact technology



ACC240 I/R
- InfraRed keyboard
- Heavy duty metal based keyboard
- Designed for Windows 95
- Enhanced 105 Windows key layout
- Highly reliable membrane contact technology



FK7200 Trackball Keyboard
- Designed for Windows 95/98/NT
- Removable palm rest for comfortable support
- Unique centrally located 25mm trackball mouse



Accuratus 280 Multimedia keyboard (64-29-01)
High quality touch enhanced multimedia keyboard.
- 17 built in hot keys.
- Easy, quick one touch navigation to WWW, etc.
- Programmable keys can be easily redefined.
- Designed for Win'95/98.
- PS/2 and AT compatible.

EURO CURRENCY READY €

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Accuratus ACC295W **(2 Pack)**	06-39-15	27.60	28.95	28.66	28.37	NEW
Accuratus ACC210	69-65-48	20.00	22.95	22.26	21.59	✂
Accuratus ACC298 USB	62-35-35	25.79	28.95	28.08	27.24	
Accuratus ACC230	69-65-55	30.00	33.95	32.93	31.94	
Accuratus ACC 240-I/R	69-12-65	35.00	39.95	38.75	37.59	NEW
Accuratus ACC280 Multimedia	64-29-01	22.22	24.95	24.20	23.48	
Accuratus FK7200 Trackball Keyboard	69-08-58	62.00	69.95	67.85	65.82	NEW

OTHER ITEMS
FOR OFFICE EQUIPMENT SEE PAGES 459–533
FOR WRIST RESTS SEE PAGE 506
FOR SCREEN FILTERS SEE PAGES 518–525

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MICROPHONES & HEADPHONES

EXPONENT


62-42-04

The **Multimedia Headphone** is a high quality hook-on-ear headset for hands free communication. As with the **Stereo Headphone** (which has built-in volume control and cushioned earphones) both enhance speech intelligibility for multimedia input, Internet access, voice command or dictation software.

The **Desktop Microphone** is compatible with standard soundcards as is the **Uni-Directional Microphone** (also compatible with SoundBlaster cards). Both are ideal for Internet communications, speech recognition software and voice command games. They are easy to install to your soundcard and the Uni-Directional comes with a self-adhesive pad so it can be placed on the monitor.


62-42-28



06-55-71


06-55-64

Model	Multimedia Headphone Earphone	Multimedia Headphone Microphone	Uni-directional Microphone	Desktop Microphone	Multimedia Stereo Headphone
Frequency response	20-18000Hz	50-12500Hz	20-16000Mhz	50-12500Hz	20-18000Hz
Output impedance	32Ohm	—	Low	2KOhm	32Ohm
Equivalent noise level	—	34dB	60dB	34dB	—
Operating voltage	3V	1.5–12V	3V	1-12V	—
Length of flex (m)	1.8			1.6	1.8
Max power input	9V	12V	9V	—	—
Sensitivity	10dB at 1kHz	-58dB+/-3dB	-62+/-3dB	—	101dB SPL at 1kHZ

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Multimedia Headphone (**2 Pack**)	06-55-64	17.13	19.95	19.15	18.39
Uni-Directional Microphone (**2 Pack**)	06-55-71	15.10	16.95	16.44	15.95
Desktop Microphone	62-42-04	11.12	12.95	12.43	11.93
Multimedia Stereo Headphone	62-42-28	17.13	19.95	19.15	18.39

OTHER ITEMS
FOR WRIST RESTS SEE PAGE 506
FOR OFFICE FURNITURE SEE PAGES 459–533

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MONITOR GUIDE



CRT MONITORS

A cathode-ray tube (CRT) is a specialised vacuum tube in which images are produced when an electron beam strikes a phospherescent surface. The CRT in a computer display is similar to that inside a television. In computer systems, there are several display modes, or sets of specifications according to which the CRT displays is known as SVGA (Super Video Graphics Array).

FLAT SCREEN CRT MONITORS

Using the same technology as more basic CRT's, flat screen CRT's have been developed to provide a tube and screen that has less curvature to its surface producing an image which is less distorted.

TFT LCD MONITORS

A display screen made with TFT (thin film transistor) technology is a liquid crystal display (LCD) that has a transistor for each pixel. TFT is also known as active matrix technology. Active matrix displays provide a more responsive image at a wider range of viewing angle than dual scan (passive matrix) displays.

MONITOR INDEX

TFT LCD Monitors	Page
Silicon Graphics	297
NEC	298
Sony	299, 309
Taxan	300
Iiyama	301
Philips	302
Mitsubishi & LG Electronics	303
ADi & Samsung	304

CRT Monitors	Page
NEC	306
Sony	308, 309
Mitsubishi	316
Iiyama	307
Taxan	310, 311
Philips	312, 313
ADi	314, 315
LG Electronics	317
Samsung	318
Compaq	320, 321
IBM	319
HP & Siemens	322

OTHER ITEMS

FOR SCREEN FILTERS SEE PAGES 518–525
FOR PCs & ACCESSORIES SEE PAGES 50–185

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

HEALTH AND SAFETY MONITOR REGULATIONS



TCO99: On the 1st November 1998, TCO (the Swedish Confederation of Professional Employees) announced TCO99.
TCO 99 is the most stringent world wide standard for monitors and includes improvements in visual ergonomics, emission levels, electromagnetic field immunity with other electrical equipment and zero use of chlorinated solvents in manufacture.
These improvements ensure that a TCO 99 monitor has been designed and manufactured to the very highest standards to enable the products to carry the TCO 99 certification.

A monitor can be one of the most expensive single components within your computer system and it is important to get value for money. But how do you know which monitor will suit your needs?

SIZE

Bigger is not always better – for general applications the most suitable monitor size is between 14–17″. For specialist users of Desk Top Publishing, CAD or applications that use Document Image Processing, a 17–24″ monitor is more suitable.

The actual viewable image size (VIS) of a monitor is usually around 1″ smaller, measured diagonally, than the actual monitor tube.

RESOLUTION

Resolutions are normally from 640 × 480 up to 1280 × 1024, the most popular resolution for windowing software is 1024 × 768. For those users running spreadsheets with large documents and many windows, a 17″ monitor with a resolution of up to 1280 × 1024 would be the most appropriate. Resolutions of up to 1920 × 1200 are the most suitable for CAD and DTP users.

ERGONOMICS

Because of the amount of time that you may spend in front of a screen the ergonomics of your monitor are very important. Most monitors are supplied with a tilt and swivel stand. The tilt ensures that the user can look down slightly on the screen and the swivel allows for a comfortable working position and helps minimise screen reflections. Special platforms that raise monitors to a comfortable height can be found on pages 524. 525. and 529.

POWER SAVING

Different monitors can vary significantly in their power consumption and over the monitors life, increased power consumption can lead to higher costs and increased heat output. There are two main approvals for power saving- Energy Star from the USA and NUTEK from Sweden. These standards set the maximum levels of power that can be used by the monitor in a power saving mode. Systems that claim to be Energy Star compliant must have power saving modes which use less than 30W, NUTEK require monitors to be powered down to 8W if not used for over 70 minutes. The TCO labour union has adopted NUTEK's power saving levels as part of the TCO92 and TCO95 certification.

EC DIRECTIVE & STANDARDS

The EC Directive (90/270/EEC) on Working with Display Equipment, covers a number of areas in the working environment for screen users. The enforcement of the directive is the responsibility of the individual country. In the UK the Health & Safety Executive is the nominated body. (Details are available from HSE publications).

EMISSIONS

Monitors generate magnetic fields and can be the source of varying types of radiation (none of them a proven health hazard). Most monitors now comply with with MPR II recommendations set by the Swedish Confederation of Professional Employees (TCO). The use of monitors with MPR II means that the source of electrical fields is relatively small compared to that generated by other electrical equipment. To further reduce electrical emissions and radiation the use of a screen filter is recommended. For a comprehesive range of filters see pages 534–541.

ENVIRONMENTALLY FRIENDLY

New guidelines have been issued for the manufacture of environmentally friendly computers and monitors in 1995. These limit the use of certain chemicals and visual ergonomic requirements to the emission levels and power savings established in TCO92.

OTHER ITEMS
FOR PCs & ACCESSORIES SEE PAGES 50–185
FOR SCREEN FILTERS SEE PAGES 518–525
FOR GRAPHICS CARDS SEE PAGES 232–236

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LCD FLAT PANEL MONITORS — SILICON GRAPHICS

The **New Silicon Graphics® 1600SW Flat Panel Monitor** redefines state of the art for LCD monitors with the best image quality of any LCD or CRT monitor on the market.

The 1600SW has high resolution – 1600H × 1024V pixels – and more than 16.7 million colours (in true colour). That's 110dpi, the finest dot pitch of any flat panel monitor, satisfying the needs of the most demanding professionals. The SuperWide™ format enables simultaneous display of two 8.5" by 11" pages.

The Flat Panel Solution Pack is powered by Revolution IC-FP, the powerful 2D and 3D video accelerator from Number Nine Visual Technology Corporation. The card is available as either AGP or PCI configurations and includes 32MB of local frame buffer and texture memory.



FEATURES:

- Exclusive, ergonomic SuperWide screen displays two side-by-side pages.
- Stunning 1600 × 1024 resolution.
- 3X brightness of CRTs.
- 5X contrast of CRTs.
- The first photo-realistic monitor, providing the finest dot pitch available (110dpi).
- Large 17.3" diagonal viewing area.
- Fastest pixel response available for video.
- All-digital interface for the ultimate quality.
- Leading-edge styling, space-saving design.

Model	Silicon Graphics 1600SW PCI	Silicon Graphics 1600SW AGP
Screen size/type	Thin film transistor (TFT) active matrix liquid crystal display (AMLCD)	
Viewable image size (vis)	17.3" diagonal (19" CRT equivalent	
Dot pitch	100dpi, 0.23mm	
Maximum resolution	1600 × 1024 pixels at 60Hz	
Ergonomic/environmental standards	TCO95, MPR-II, EPA Energy Star, CISPR 22 Class B, CE, CSA, TUV, ISO, UL 1950	
Dimensions (W × D × H)	With base 17.875" × 18.375" × 7.375", without base 17.875" × 12.6"3"	
Weight	With base 16lbs/7.3kg, without base 8lb/3.6kg	
Warranty	Std 1 year TRB, upgradeable to 3 year 5 × 9 4hr on-site	
Mounting Options	Desktop or VESA standard 4-hole mount compatible with ErgoTron™ mounting arms	

DESCRIPTION	DIAGONAL TUBE	SPEAKERS	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Silicon Graphics 1600SW PCI	17.3"	NO	53-77-85	1964.00	➧	➧	1999.00
Silicon Graphics 1600SW AGP	17.3"	NO	38-30-00	1964.00	➧	➧	1999.00
Warranty Upgrade to 3yr 5 × 9 4hr on-site	–	–	37-00-12	41.07	42.00	41.75	41.50

OTHER ITEMS FOR PC ACCESSORIES SEE PAGES 50–185

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LCD DISPLAYS

NEC

Ideal for high-density display environments including trading rooms, call centres and offices. Flat screen monitors offer considerable direct and indirect savings due to their smaller footprint, lower power consumption and minimal heat dissipation.



NEC's range of LCD monitors offer all the benefits of our CRT monitors but with the additional benefits of slim design and outstanding image quality. Offering the widest choice of screen sizes across the range from 14" to 20" with revolutionary flexibility to meet the needs of every user.

The **LCD 1510V+** offers an ergonomic design including VESA mounting facility and separate power supply which allows tremendous flexibility of mounting. Coupled with the ability to change the orientation to work in portrait or landscape, document work becomes a delight. The high brightness and contrast along with the analogue panel technology enables the 1510V to easily surpass the competition in areas of image quality and colour fidelity.

The **LCD 1525V** uses a digital colour TFT panel with a wide viewing angle of 110 degrees. It can display 16.9 million colours and can utilise the whole screen area even when running at lower resolutions. The LCD1525V offers users high resolution, flicker free imaging and weighs in at 6.5kg. A VESA specification flat panel mount and remote power supply allow total positioning flexibility.

The **LCD 1810** uses NEC's SuperFine technology to give a perfect image for CAD/CAM, professional page layout work or financial dealing displays where so much more information needs to be visible at any time. Dual inputs, switchable from a front panel button further enhance the overall adaptability of this monitor.

Model	LCD1510V+	LCD1525M	LCD1525S	LCD1810	LCD2010
Screen size/type	15"TFT	15.1"TFT	15.4"TFT	18"TFT	20.1"TFT
Pixel pitch	0.297mm		0.238mm	0.28mm	0.312mm
Maximum resolution	1024×768@75Hz		1280×1024@60Hz		
Contrast	150:1	350:1	200:1	150:1	220:1
Ergonomic/ environmental standards	TCO95, VESA	TCO99, VESA		TCO95, VESA	
Dimensions (W×D×H)	381×217×392mm	370×158×360mm		450×252×560mm	498×252×580mm
Weight	7.0kg	4.5kg	7.0kg	9.0kg	10.5kg
Warranty	3 years on-site warranty including backlights				

DESCRIPTION	DIAGONAL TUBE WIDTH	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
MultiSync LCD1525V	15.1"	20-70-25	661.00	➧	679.95	673.15
MultiSync LCD1510V+	15.0"	20-17-70	777.00	➧	799.00	791.01
MultiSync LCD1525M Multimedia	15.0"	20-49-49	679.00	➧	699.00	692.01
MultiSync LCD1525S	15.4"	20-12-47	1158.00	➧	➧	1179.00
MultiSync LCD1810	18.1"	20-17-63	2130.00	➧	➧	2150.00
MultiSync LCD2010	20.1"	20-30-92	3333.00	➧	➧	3350.00
MultiSync LCD 2110P	21.3"	20-53-52	6895.00	➧	➧	6895.00

OTHER ITEMS FOR SCREEN FILTERS SEE PAGES 518–525

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LCD DISPLAYS

SONY



The latest LCD/TFT flat panel from **SONY** is the SDM-N50. the 15" SuperSlim offering is a mere 1.2cm deep making it one of the thinnest panels on the market. Additional features include a Stereo Speaker with Bass Boost Function, an Auto Brightness Sensor and an Auto Power Off Sensor.



The Multiscan® **M151** and **L181** are uniquely designed for those environments where desktop space is valuable, but in short supply. They offer an incredibly sharp image, wide viewing angle, easy-to-use features and elegant design. With Sony's unique Zero Footprint™ design, the removable tilt base provides users with arm or wall mounting capabilities to reclaim 100% of the desktop.

Model	SDM-N50	CPD-M151	CPD-L181	L181A
Screen size	15" TFT	15.1" TFT	18.1" TFT	
Viewable image size	15"	15.1"	18.1"	
Max resolution	1280 × 1024@75Hz	1024 × 768 @85Hz	1280 × 1024@85Hz	
Standards	TCO99, NUTEK, Energy Star, VESA DPMS			
Viewing angle Horizontal/ Vertical	H:140° V:120°	H:140° V:120°	H:140° V:110°	H:160° V:160°
Dimensions (W × D × H)	356 × 346 × 185mm	395 × 358 × 173mm (Incl. stand)	468 × 422 × 208mm (Incl. stand)	
Dual Input	Yes	No	Yes	
Weight	3.6kg	5.1kg	9kg	
Warranty	3 year with 1st year on-site			

DESCRIPTION	DIAGONAL SCREEN WIDTH	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
SDM-N50	15" TFT	97-53-63	979.00	▶	999.00	993.01	✂
CPD-M151	15" TFT	31-35-43	739.00	▶	752.00	747.49	✂
CPD-L181	18.1" TFT	20-17-64	1890.00	▶	▶	1899.00	
L181A	18" TFT	27-36-94	1890.00	▶	▶	1899.00	✂

OTHER ITEMS
FOR SCREEN FILTERS SEE PAGES 518–525
FOR PCs & ACCESSORIES SEE PAGES 50–185

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LCD DISPLAYS

TAXAN



The **Taxan Crystalvision range** uses the very latest **Thin Film Transistor** (TFT) active matrix technology to provide high quality, high contrast and distortion free colour images.

The **Crystalvision 625 TCO95-S** has an optimum resolution of 800 × 600 with a 12.1″ viewable area. With built-in speakers, it is ideal for specialist point of sales SVGA applications.

The **Crystalvision 675 TCO99-S** high specification 15″ TFT has increased viewing angles and contrast ratio. The one touch auto set-up feature guarantees easy installation and ensures the product performs to its optimum with all types of PC. Integrated 4 port USB hub.

The **Crystalvision 775 TCO99-S** produces the impressive 1280 × 1024 resolution with a significant cost saving compared to 18.1″ TFT LCDs. Integrated 4 port USB hub.

The **Crystalvision 875 TCO99** is the ultimate display product with an 18.1″ advanced TFT displaying 1280 × 1024 resolution. Ideal for displaying vast information in the smallest space or DTP or CAD work due to the perfect image quality. It does NOT have speakers. Optional integrated 3 port USB hub.

Model	CV625TCO95-S	CV675TCO99-S	CV775TCO99-S	CV875TCO99
Screen size/type	12.1″ TFT LCD	15″ TFT LCD	17″ TFT LCD	18.1″ TFT LCD
Viewable Image Size	12.1″	15″	17″	18.1″
Optimum resolution	800 × 600	1024 × 768	1280 × 1024	
Ergonomic/ Environmental standards	TCO95, NUTEK, Energy Star, MPR II	TCO99, NUTEK		
Dimensions (W × D × H)	325 × 166 × 340mm	399 × 195 × 392mm	441 × 195 × 443mm	481 × 220 × 460mm
Weight	3.8kg	6.4kg	8.0kg	9.0kg
Warranty	3 years with first year on-site			

For further warranty and technical data please visit www.taxan.co.uk

DESCRIPTION	DIAGONAL SCREEN SIZE	SPEAKERS	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Crystalvision 625 TCO95-S	12.1″	YES	20-94-75	491.79	➧	499.95	496.95
Crystalvision 675 TCO99-S	15″	YES	20-30-94	729.00	➧	749.95	742.45
Crystalvision 775 TCO99-S	17″	YES	57-39-14	1727.00	➧	➧	1747.00
Crystalvision 875 TCO99	18.1″	NO	77-93-21	2089.00	➧	➧	2095.00
NEW Taxan USB Hub Upgrade for CV875 TCO99	—	—	20-53-51	60.17	62.95	62.32	61.70

OTHER ITEMS FOR PCs & ACCESSORIES SEE PAGES 50–185

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LCD FLAT PANEL MONITORS

iiyama

Iiyama Pro Lite
Affordable, innovative flat screen technology. The Pro Lite range of TFT LCD monitors means brighter, flicker-free screens, using less energy, producing less heat and using less than half the space of an average 17" monitor.
No geometric display distortion, misfocus or misconvergence. Space saving, lightweight design.



FEATURES INCLUDE:

- New high contrast, high brightness TFT LCD colour monitor.
- Low power consumption, minimal heat.
- Tiltable base for operator comfort and ergonomics.
- Ultra space saving lightweight design.
- 90° Rotating screen (landscape and portrait viewable).
- Universal Serial Bus connection, built in speakers (38F, 38G and 46C only).

USB

Model	Pro Lite 36C	Pro Lite 38E	Pro Lite 38F	Pro Lite 38G	Pro Lite 46C
Screen size/ type	14.1"TFT	15"TFT			18.1" TFT
Pixel pitch	0.28mm				
Max. resolution	1024 × 768@75Hz				
Standards	TCO-99, MPR-II				
Dimensions	390 × 198 × 360mm			400 × 210 × 404.5mm	471 × 220 × 466mm
Weight	4kg			6.7kg	9.5kg
Warranty	3 years on-site (excluding Backlight)				

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Pro Lite 36C	86-86-96	649.00	◗	659.95	655.99	✂
Pro Lite 38E	62-49-47	757.00	◗	779.95	772.15	
Pro Lite 38F (USB)	62-17-60	808.00	◗	829.95	821.65	✂
Pro Lite 38G (USB)	62-78-01	812.19	◗	835.95	827.59	NEW
Pro Lite 46C (USB)	62-15-19	1977.00	◗	◗	1999.00	NEW

OTHER ITEMS

FOR DIGITAL CAMERAS SEE PAGES 329–343
FOR GRAPHICS CARDS SEE PAGES 232–236

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LCD FLAT PANEL MONITORS

PHILIPS



The **105B Monitor** (14" visible image size) gives general business users who require top graphics performance without breaking the bank or eating up valuable desktop space.
Philips XSD™ – XtraSpace Design makes this small wonder the world's smallest 15" monitor with a front-to-back space requirement of only 379mm or 14.9"!
For use with both MACs and PCs, it is the optimum combination of the best performance and economy in its class with high resolution and laser sharp images.

The **150P Monitor** represents the ultimate in Flat Panel Display performance. Designed for the profesional user who demands premium picture quality and excellent features, this monitor also has a sophisticated, ergonomic design and the world's smallest foot-print.
Few monitors can matche the Brilliance 150P in style and performance. The 15.1" TFT LCD monitor gives a viewable area comparable to a 17" monitor yet its small footprint makes it the most space efficient monitor available.

The **Brilliance 181AS** is part of a new family of more efficient flat panels that minimise required desk space, reduce eyestrain and feature the widest viewing angle in its class. This 18.1" product provides a viewing area equivalent to a 19" CRT monitor and a visual impact similar to a 21" CRT display. It offers one of the best viewing angles in the industry thanks to 'Wide Viewing Angle' technology – 160° horizontal and vertical viewing angles. An optional user installable protective cover protects the LCD surface from impacts or for example coffee spills.

The **Philips Protective Cover** for the **150B Monitor** shields your LCD panel from accidental scratches or damage. Flat Panel monitors placed in public areas are especially good candidates for protective covers.
- Easily installs in seconds.
- Unique anti-glare coating surface treatment.
- 3H hardness anti-scratch surface coating.
- Over 90% light transmittance.

Model	150B	150P	181 AS
Screen Type	Active Matrix TFT LCD		
Screen Size	15"	15.1"	18"
Viewable image size	14"	17"	18"
Pixel pitch	0.27mm	0.28mm	
Max resolution	1280 × 1024@70Hz	1024 × 768@75Hz	1280 × 1024@75Hz
Supported standards	TCO 99, VESA DPMS, NUTEK		
Dimensions (W × D × H)	358 × 379 × 370mm	387 × 165 × 400mm	476 × 181 × 451mm
Weight	12kg	5.4kg	10kg
Warranty	3 Years		

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	Philips 150B	53-94-98	641.95	◆	659.95	653.35
✂	Philips 150P	53-01-00	649.00	◆	667.95	661.27
✂	Philips 181AS	81-15-26	1879.00	◆	◆	1899.00
NEW	Philips Protective cover	54-22-63	47.00	49.95	49.45	48.96

OTHER ITEMS FOR SCREEN FILTERS SEE PAGES 518–525

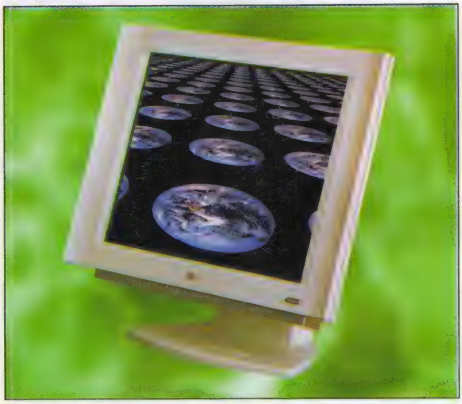
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LCD FLAT PANEL DISPLAYS MITSUBISHI LG ELECTRONICS



At only 160mm deep including the stand Misubishi's 15″ LCD is perfect for space critical environments. The **LCD580** model also features Mitsubishi's new colour Algorithm.

Mitsubishi LCD 820 Based on thin film transistor (TFT) technology, the **LCD 820 TFT** features excellent image quality. At 220mm deep, this slim, space-saving monitor occupies only 40% of the desk space of the average 17″ CRT monitor and weighs only 9kg. The display offers a 1280 × 1024 resolution with a 0.2805mm pixel pitch and horizontal viewing angle of ±70*f*.



The **LG 570LS** is packed with high quality features such as its brilliant active matrix TFT display, wide viewing angle technology, auto-synchronous support up to 1024 × 768@85Hz, plus much more.

The **880LC TFT** flat panel offers an 18.1″ screen with 1280 × 1024 resolution. A rich, brilliant display and slim elegant contours are supported by an extra wide viewing angle of 160° giving the best of all worlds.

Model	Mitsubishi LCD580	Mitsubishi LCD820	LG SSW570LS	LG 880LC
Screen size	15″	18.1″	15.1″	18.1″
Viewable image size	15″	18″	15.1″	18″
Pixel pitch	0.297mm	0.28mm	0.3mm	0.28mm
Max resolution	1024 × 768	1280 × 1024@85Hz	1024$768@85Hz	1280 × 1024@75Hz
Supported standards	TCO99, MPR-II, EnergyStar			
Dimensions (W × D × H)	374 × 160 × 392mm	460 × 220 × 481mm	405 × 182 × 362mm	434 × 235 × 442mm
Weight	5.6kg	9.0kg	5.2kg	10.5kg
Warranty	3 years			

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Mitsubishi LCD580	36-49-47	729.00	➧	749.95	742.45	NEW
Mitsubishi LCD820	36-99-76	1799.00	➧	➧	1825.00	✂
LG Electronics Audioworks 570LS	53-00-90	612.99	➧	629.95	623.65	✂
LG Electronics 880LC	20-12-46	1776.00	➧	➧	1795.00	

OTHER ITEMS

FOR SCREEN FILTERS SEE PAGES 534–541

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

LCD DISPLAYS

SAMSUNG



The **SyncMaster 570BTFT** LCD Flat Panel Monitor boasts a maximum resolution of 1024 × 768 and an active visual area of 15″ viewable screen. The LCD screens are distortion free and reduce the amount of reflected light onto the screen. Emission/radiation levels are virtually zero and each screen is visible from up to 120° angle from either side without degradation of picture quality.

The **SyncMaster 770TFT** is the ideal display for all business and professional applications. The viewing area is then comparable CRT display and it delivers resolutions up to 1280 × 1024. The SyncMaster 770TFT is compatible with Windows and Macintosh systems and takes the advantage of Samsung's exclusive "Wide Viewing Angle Technology" (160° of conic view) that lets people see crisp and vibrant images from virtually any direction. For space hungry users such as designers and architects, the SyncMaster 770TFT can be easily mounted on walls.

The **SyncMaster 800TFT** takes the advantage of Samsung's exclusive "Wide Viewing Angle Technology" (160° of conic view) that lets people see crisp and vibrant images from virtually any direction. From high-end graphics and CAD/CAM/CAE to the world of multimedia, SyncMaster Flat Panel monitors bring a new dimension to today's most demanding applications.

Model	SM570BTFT	SM770TFT	SM800TFT
Screen type/size	15″ TFT LCD	17″ TFT LCD	18.1″ TFT LCD
Viewable image size	15″	17″	18.1″
Dot pitch	0.297mm	0.26mm	0.28mm
Maximum resolution	1024 × 768@60Hz	1280 × 1024@76Hz	1280 × 1024@76Hz
Supported standards	TCO 95, VESA, EPA, NUTEK		
Dimensions (W × D × H)	355 × 168 × 367mm	440 × 458.5 × 20mm	449.5 × 277 × 460mm
Weight	5.7kg	8.4kg	8.3kg
Warranty	3 years on-site warranty		

www.samsungelectronics.com

	DESCRIPTION	DIAGONAL TUBE WIDTH	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
✂	SyncMaster 570BTFT	15″	22-52-16	632.00	➧	649.95	643.45
NEW	SyncMaster 770TFT	17″	22-17-66	1469.00	➧	➧	1499.00
NEW	SyncMaster 800TFT	18.1″	97-53-68	1865.00	➧	➧	1899.00

OTHER ITEMS FOR SCREEN FILTERS SEE PAGES 518–525

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LCD FLAT PANEL MONITORS

Compaq, Hewlett-Packard, Siemens and **IBM** offer a wide range of flat panel monitors to suit every clients needs, ranging from home to large companies use.

Model	Compaq TFT 5010	Compaq TFT 8020	HP L1500	HP L1800	Siemens MCF 3811	IBM T85A
Screen size	15.1"	18.1"	15"	18"	15"	18"
Viewable Image Size (VIS)	15.1"	18.1"	15"	18"	15"	18"
Dot pitch	0.30mm	0.28mm	0.27mm	0.24mm	0.29mm	0.28mm
Maximum Resolution	1024×768@75Hz	1280×1024@75Hz	1024×768@75Hz	1800×1440@80Hz	1024×768@75Hz	1280×1024@108Hz
Ergonomic/ Environmental standards	MPR II, FCC, TCO-99, Energy Star	MPR II, FCC, TCO-99, Energy Star	VESA DPMS, MRP II, TCO-99, Energy Star, TUV-ERGO	Energy Star, MPR II, VESA DPMS, NUTEK, TCO-95	MPR II, TCO-95	TCO-95, MPR II, Energy Star, VESA DPMS, NUTEK
Dimensions (W×D×H)	400×390×218mm	448×432×247mm	359×170×390mm	512×512×502mm	405×200×410mm	459×224×462mm
Weight	8.56kg	9.4kg	8kg	9.1kg	6.2kg	9kg
Warranty	3 year limited warranty with 1 year on-site warranty		3 year exchange international limited hardware warranty		3 years, 1 year on-site	3 year customer carry-in exchange

LCD FLAT PANEL MONITORS

COMPAQ

DESCRIPTION	DIAGONAL TUBE WIDTH	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Compaq TFT 5010	15.1"	64-32-55	774.00	▶	787.00	782.28	NEW
Compaq TFT 7000	17.1"	48-12-61	1449.00	▶	▶	1465.00	
Compaq 8020	15"	48-12-46	2224.00	▶	▶	2229.95	NEW

LCD FLAT PANEL MONITORS

hp invent

HP L1500 LCD	15"	69-22-87	710.00	▶	729.95	722.65	✂
HP L1800 TFT LCD	18.1"	36-99-71	2094.00	▶	▶	2100.00	
HP L1800 TFT LCD – Black	18.1"	27-36-95	2109.00	▶	▶	2115.00	✂

LCD FLAT PANEL MONITORS

SIEMENS

Siemens MCF 3811	15"	64-32-71	933.00	▶	949.00	943.31	NEW

LCD FLAT PANEL MONITORS

IBM

IBM T55A TFT LCD	15"	62-68-55	729.00	▶	749.95	742.45	✂
IBM T85A TFT LCD	18.1"	75-64-76	1964.00	▶	▶	1999.00	✂

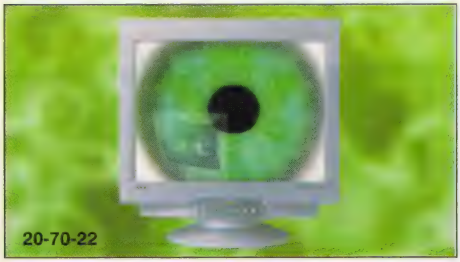
OTHER ITEMS

FOR SCREEN FILTERS SEE PAGES 534–541

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CRT MONITORS

NEC



MultiSync FP950™
The **FP950** 19″ CRT is designed with a minimal footprint to provide a solution for those who don't want to compromise on space in order to optimise on screen size. The Natural Flat Aperture grille dramatically reduces glare and user fatigue. This high-resolution monitor has a crystal clear display in an ample viewing area.

MultiSync FP1250™
The MultiSync FE1250 represents the pinnacle of our range and of our years of expertise in the display field. The ultimate in large screen display the MultiSync FE1250 has crystal clear resolution and very high refresh rates perfect for more demanding applications. As a professional working in graphic design, Computer Aided Design and Engineering, or using advanced business applications you will appreciate the exceptional image quality, accuracy and brilliance.

MultiSync V521™
The**V521**15″ colour monitor offers outstanding screen performance with crisp sharp, accurate images that enable comfortable viewing of today's sophisticated applications, and all this at an exceptional price.
Ideally suited for word processing, spreadsheet applications and internet browsing.

MultiSync FE700™
NEC Technologies flat-faced **FE700** monitor deliver outstanding features and benefits to business, home and education. The value-priced flat aperture grille 17″ (16″ VIS) monitor offers improved image quality, and an 85% reduction in glare.

MultiSync FE700M™
The new FE700M shows a noticeable improvement in image quality over current flat square and aperture grille CRT's with its' perfect flat face. A multimedia base offers user high quality sound from 2 × 1 W speakers.

MultiSync V921™
The V921 is a 19″ CRT monitor that is designed with value users in mind and a minimal footprint to provide a solution for those who don't want to compromise on space in order to optimise on screen size.

Model	V521	FE700	FP700M	V921	FP950	FE1250
Screen size	15″	17″	17″	19″	19″	22″
Viewable image size	13.8″	16″	16″	18″	18″	20″
Dot pitch	0.28mm	0.25mm	0.25mm	0.26mm	0.25-0.27mm	0.25-0.27mm
Max resolution	1280 × 1024@85Hz	1280 × 1024@85Hz	1280 × 1024@66Hz	1600 × 1200@77Hz	1920 × 1440@73Hz	1920 × 1440@73Hz
Dimensions (W × D × H)	360 × 381 × 360mm	403 × 424 × 427	403 × 424 × 427	442 × 455 × 453mm	442 × 472 × 501mm	483 × 501 × 472mm
Weight	360x	23.5kg	19kg	24.5kg	27kg	32kg
Warranty	3 years on-site					

	DESCRIPTION	MONITOR	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	Multisync V521	15″	30-53-60	116.00	◗	119.95	118.75
	Multisync FE700	17″	66-76-12	164.00	◗	167.00	166.00
NEW	Multisync FE700M	17″	53-78-49	180.00	◗	185.95	184.09
	Multisync V921	19″	93-17-30	261.50	◗	269.00	266.31
✂	Multisync FP950	19″	20-70-22	437.50	◗	449.95	445.45
	Multisync FE1250	22″	69-22-95	564.00	◗	579.95	574.15

OTHER ITEMS
FOR SCREEN FILTERS SEE PAGE 518–525

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MONITORS AND FLAT CRT MONITORS

iiyama

The **S700JT1** is an entry level 17" monitor. Integrated with full set of user controls accessible via the on-screen display menu, TCO-95 compliancy and is capable of 1024 x 768@75Hz. They also come with a 3 year on-site warranty as standard.
There are two other 17" models in the VisionMaster range. All incorporate the latest technologies to produce the highest resolutions and refresh rates available today. The New **VisionMaster 404**, a 17" FST has a dot pitch of 0.26mm and a Max Resolution of 1280 x 1024 @90Hz. The **VisionMaster Pro 410,** a 17" flat screen DiamondTron NF.
The **VisionMaster Pro 450** incorporates new natural flat aperture grille technology.
The New **VisionMaster 451** is a 19" FST with a 18" viewable screen, a Max Resolution 1280 x 1024 @1110Hz and a dot pitch of 0.26mm. The New 21" **VisionMaster 502** has a dot pitch 0.27mm making it excellent for multimedia use.
The 22" TCO-99 **VisionMaster Pro 510** offers the very latest in flat screen aperture grille technology, with outstanding professional level picture performance. Ideal for multimedia users viewing detailed multiple or moving image applications, CAD, DTP and document workflow.
All Iiyama VisionMaster monitors now come with three years on-site warranty as standard.



Model	S700JT1	Pro 410	Pro 451	502	Pro 510
Screen size/type	17" FST	17" DiamondTron NF	19" FST	21" FST	22" DiamondTron NF
Viewable image	16"	15.9"	18"	19.5"	20"
Dot pitch	0.26mm	0.25mm	0.26mm	0.27mm	0.25-0.27mm
Max. resolution	1280 x 1024@90Hz	1280 x 1024@90Hz	1280 x 1024@100Hz	2048 x 1536	1600 x 1200@100Hz
Standards	TCO95, MPRII	TCO99, MPRII	TCO99, MPRII	TCO95	TCO99, MPRII
Dimensions (W x D x H)	410 x 430 x 411mm	412 x 415 x 424mm	450 x 447 x 447mm	492 x 490 x 490mm	493 x 482 x 490mm
Weight	16kg	21kg	23kg	31kg	33kg
Warranty	3 years on-site				

DESCRIPTION	MONITOR	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
VisionMaster S700JT1	17"	62-17-70	136.00		139.95	138.55	NEW
VisionMaster 404	17"	12-10-92	221.00		227.95	225.67	
VisionMaster Pro 410	17"	20-27-72	238.00		244.95	242.50	
VisionMaster Pro 451	19"	38-30-15	336.50		345.95	342.49	
VisionMaster Pro 450	19"	62-30-47	375.00		385.95	382.09	
VisionMaster 502	21"	55-26-68	599.00		619.95	613.75	
VisionMaster Pro 510	22"	20-36-80	622.50		639.95	633.55	

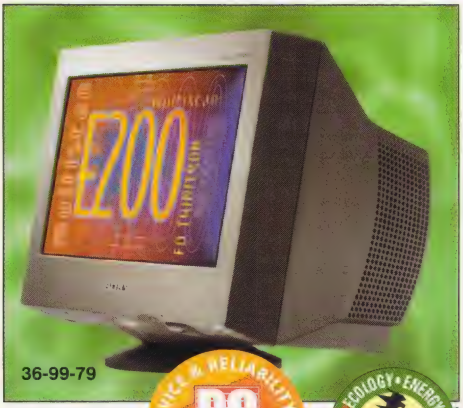
OTHER ITEMS

FOR PCs MACs & ACCESSORIES SEE PAGES 50–185
FOR SCREEN FILTERS SEE PAGES 518–525

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CRT MONITORS

SONY



The new **Multiscan E100** and **E200** are 15″, 17″ monitors respectively, which offer small businesses and home office users the benefits of Sony's revolutionary FD Trinitron technology at an affordable price. This technology is complemented by Sony's MALS (Multi-Astigmatism Lens System) focusing technology which gives a small spot size and a truer spot shape right up to the corners of the screen. All models comply with the latest TCO'99 ergonomic and environmental regulations. So, quality and safety are offered at a very attractive price for cost-effective and efficient work either at home or in the office.

The **A100** provides the benefits of Sony's FD Trinitron technology – minimal glare and distortion, superb image quality and excellent colour reproduction – all in appealing form factor. The displays are tinted for distinctive look and feel, while easy plug-and-play USB connectivity offers multimedia expandability options.

The **G200** also offers a visually flat screen and this FD Trinitron CRT delivering superior image and reliability in a compact design well-suited for demanding corporate environment.

Model	Multiscan E100E	Multiscan A100	Multiscan E200	Multiscan G200
Screen size/type	15″ Trinitron CRT	15″	17″ FD Trinitron CRT	
Viewable image size (VIS)	14″		16″	
Dot pitch (mm)	0.25	Super Fine 0.24–0.25		
Maximum resolution	1024×768@88Hz	1280×1024@80Hz		1600×1200@78Hz
Ergonomic/ Environmental standards	TCO 99, MPR II, NUTEK, VESA DPMS			
Dimensions (W×D×H)	378×356×388mm	381×404×359mm	414×404×420mm	
Weight	15kg	14kg	20kg	
Warranty	3 years with 1ST year on-site Sony Express Exchange	3 years	3 years with 1ST year on-site Sony Express Exchange	

www.ita.sel.sony.com/products

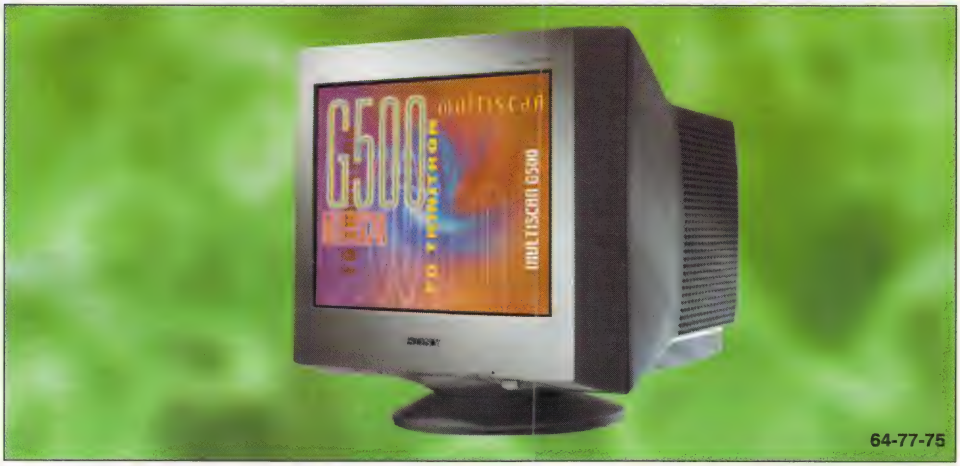
DESCRIPTION	DIAGONAL TUBE WIDTH	SPEAKERS	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Multiscan E100	15″	NO	38-29-65	142.95	▶	145.95	145.07
NEW Multiscan A100	15″	NO	22-52-85	148.50	▶	152.95	151.42
Multiscan E200	17″	NO	36-99-79	229.00	▶	235.95	233.59
Multiscan G200	17″	NO	90-52-59	268.00	▶	275.95	273.19

OTHER ITEMS
FOR SCREEN FILTERS SEE PAGES 518–525

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CRT MONITORS

SONY



64-77-75

The new **Multiscan E400** and **E500** 19″ and 21″ monitors offer small businesses and home office user the benefits of Sony's revolutionary FD Trinitron technology at an affordable price. This technology is complemented by Sony's MALS (Multi-Astigmatism Lens System) focusing technology, which gives a small spot size and a truer spot, shape right upto the corners of the screen. All models comply with the latest TCO'99 ergonomic and environmental regulations. So, quality and safety are offered at a very attractive price for cost-effective and efficient work either at home or in the office.

Bringing its latest display technology to corporate desktops, Sony Electronics is reinforcing its commitment to FD Trinitron technology and design with three new Multiscan® computer displays includes the 19″ **CPD-G400** and 21″ **CPD-G500** monitors. These new models set the standard for display quality and performance at the corporate level.

Model	Multiscan E400	Multiscan G400	Multiscan E500	Multiscan G500
Screen size	19″ FD Trinitron CRT		21″ FD Trinitron CRT	
Viewable image size	19″		21″	19.8″
Dot Pitch	Superfine 0.24–0.25mm		Superfine 0.24mm	
Max resolution	1280×1024@91Hz	1080×1024@101Hz	1280×1024×@103Hz	1800×1440@80Hz
Standards	TCO '99, NUTEK, International Energy Star, E2000 ('99 mark)			
Dimensions (W×D×H)	446×461×464mm	449×461×463mm	498×478×491mm	491×498×478mm
Weight	26kg		32kg	
Warranty	3 year with 1st year on-site			

DESCRIPTION	DIAGONAL SCREEN WIDTH	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Multiscan E400 Monitor	19″	62-12-47	369.00	➧	375.95	373.69	✂
Multiscan G400 Monitor	19″	53-77-70	432.00	➧	439.95	437.31	✂
Multiscan E500 Monitor	21″	62-17-62	575.00	➧	589.95	584.05	NEW
Multiscan G500 Monitor	21″	64-77-75	699.00	➧	719.95	715.63	✂

OTHER ITEMS

FOR SCREEN FILTERS SEE PAGES 518–525
FOR PCs & ACCESSORIES SEE PAGES 50–185

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

CRT MONITORS

TAXAN





The **17" Valuevision 1710 TC099** offers resolutions up to 1024 × 768 @ 85Hz. The face is treated with an Anti-Reflection, Anti-Static and Anti-Glare fabrics so visibility is clear.
The **new Valuevision 1910 TCO99** includes a super fine dot pitch 19" flatter square (FST) cathode ray tube and is optimised for the Video Electronics Standards Association (VESA) 1280 × 1024 (85Hz) display standard.
The **new Valuevision 2175 TCO99** includes a super fine dot pitch 21" flatter square (FST) cathode ray tube and is optimised for the Video Electronics Standards Association (VESA) 1280 × 1024 (85Hz) display standard. It is ideal for a wide range of applications that demand a larger display area.

The **15" Ergovision 535TC099** offers resolutions up to 1024 × 768 @ the VESA required 85Hz.
The **17" Ergovision 735 TCO99** offers resolution up to 1024 × 768@ flicker free 86Hz, conform to the TCO99 Standard for emissions and offer a low cost solution for a wide range of graphics applications.
The **17" Ergovision 737 TCO99** offers resolutions up to 1024 × 768 @ 86Hz. It comes with 2 × 1.5 watts speaker output system, with adjustable controls on the front consisting of a mute, volume control, audio, OSD control and power button.

Model	1710 TCO99	1910 TCO99	2175 TCO99	EV 535 TCO99	EV 735 TCO99	EV 737 TCO99-S
Screen size/type	17" FST	19" FST CRT	21" FST CRT	15" FST CRT	17" FST CRT	17" FST
Viewable Image Size (VIS)	16"	18"	19.5"	13.8"	16"	
Dot pitch	0.27mm	0.26mm		0.27mm		
Recommended Resolution	1024 × 768@87Hz	1280 × 1024 × @65Hz	1280 × 1024 × @88Hz	1024 × 768@85Hz	1024 × 768@86Hz	
Ergonomic/ Environment standards	NUTEK, Energy Star, MPRII, TCO 99					
Dimensions (W × D × H)	408 × 377 × 425mm	450 × 460 × 450mm		368 × 382 × 376mm	412 × 428 × 423mm	412 × 403 × 426mm
Weight	15.5kg	22kg	29kg	13.6kg	18kg	18.5kg
Warranty	3 years warranty with first year on-site					

USB

	DESCRIPTION	DIAGONAL TUBE WIDTH	SPEAKERS	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
✂	Valuevision 1710 TCO99	17"	NO	35-30-86	136.00	▶	139.95	138.55
NEW	Valuevision 1910 TCO99	19"	NO	35-76-56	228.55	▶	235.00	232.65
✂	Valuevision 2175 TCO99	21"	NO	35-20-22	436.55	▶	449.00	444.51
	Ergovision 535 TCO99	15"	NO	20-22-65	127.55	▶	129.95	129.17
✂	Ergovision 735 TCO99	17"	NO	62-82-93	176.95	▶	181.92	180.10
✂	Ergovision 737 TCO99-S	17"	YES	22-52-15	184.75	▶	189.95	188.05

OTHER ITEMS
FOR SCREEN FILTERS SEE PAGES 518–525

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MONITORS

TAXAN



The **975 TCO99** offer a maximum resolution of 1600+1200@75Hz with a 18″ viewable screen and 0.26mm dot pitch, making this display ideal for today's high end business applications. The **TCO99** includes a fully integrated USB hub.

The **Ergovision 2280 TCO99** uses the same Diamondtron NF technology explained above, however this 22″ monitor achieves the amazing resolution of 1920×1440@ a flicker free 85Hz refresh.

ALL TAXAN MONITORS COME WITH A THREE YEAR ON-SITE WARRANTY AS STANDARD

www.taxan.co.uk

Model	EV975 TCO99	EV2280 TCO99
Screen size/type	19″ FST	22″ Diamondtron NF
Viewable Image Size	18″	20″
Dot pitch	0.26mm	0.25mm
Recommended Resolution	1280×1024@88Hz	1920×1440×@85Hz
Ergononic/Environmental standard	TCO99, NUTEK	
Dimensions (W×D×H)	450×470×461mm	505×499×495mm
Weight	22kg	37kg
Warranty	3 years on-site	

DESCRIPTION		DIAGONAL TUBE WIDTH	SPEAKERS	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Ergovision 745 TCO99		17″	—	62-83-03	216.00		219.95	218.63	
Ergovision 755 TCO99		17″	—	20-70-26	233.45		239.95	237.55	
Ergovision 975 TCO99		19″	NO	20-70-21	287.00		295.95	292.99	
Ergovision 985 TCO99		19″	—	64-78-63	322.95		332.00	328.68	NEW
Ergovision 2280 TCO99		22″	NO	20-17-22	775.27		795.95	787.99	

OTHER ITEMS

FOR SCREEN FILTERS SEE PAGES 518–525

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CRT MONITORS

PHILIPS



The **107P10** 17" (16" VIS) Brilliance Flat monitor with a 0.25mm Aperture Grille tube has a maximum horizontal frequency of 96KHz, offering a maximum resolution of 1920 × 1440 with flicker free display of 1024 × 768 at up to 120Hz. Dual inputs allows the simultaneous connection to two computers while CustoMax™ offers outstanding ease of use.
Philips **107S11** SOHO line for small offices and home offices offers the best possible value for money for heavy duty home use and cost conscious business user. It is well suited for everyday applications including spreadsheets and word processing.

The **Philips** range of monitors offer a quality, cost-effective solution to most users' needs. All models featured include Energy Star power management features and comply with either MPR-I or MPR-II and ISO 9241-3 standards.

The entry-level **104B** has an integrated tilt and swivel pedestal and offers resolution of 1024 × 768 (non-interlaced) @ 60Hz.

Philips' range of 15" monitors consists of the entry level **105S11** and the Business Class **105B11**. Both models have AMDC (Advanced Monitor Deflection Control) for fast, stable mode switching without distortion.
The 105B11 also offers a slightly higher flicker-free resolution and also complies with TCO '95 reduced emissions standard.

The **Autoscan Brilliance 107B10** supports a higher flicker-free resolution and has a superior 0.28mm dot pitch. Digital controls are provided with 12 factory presets and 15 user-programmable modes and an LCD display panel for clear identification of selected modes. It has built-in stereo audio for multimedia applications.

Model	104B	105S11	105B11	107S11	107P10	107B10
Screen size/type	14" CRT	15" FST CRT	15" FST CRT	17"		17" FST CRT
Viewable Image Size (VIS)	13.4"	13.8"		16"		15.9"
Dot pitch	0.28mm			0.27mm	0.26mm	0.28mm
Maximum Resolution	1024 × 768 @ 60Hz		1024 × 768 @ 66Hz	1280 × 1024 @ 60Hz	1600 × 1200 @ 75Hz	
Ergonomic/ Environmental standards	MPR II, Energy Star NUTEK, VESA DPMS		MPR II, Energy Star NUTEK, VESA DPMS, TCO 95	TCO99, MPR-II, EPA, NUTEK	TCO99, MPR-II, EPA, NUTEK	
Dimensions (W × D × H)	356 × 385 × 376mm	369 × 393 × 409mm	367 × 395 × 384mm	379 × 410 × 408mm	442 × 433 × 500mm	440 × 450 × 454mm
Weight	10.7kg	12.6kg	12.7kg	15kg	21.5kg	21kg
Warranty	3 years with first year on-site					

DESCRIPTION	DIAGONAL TUBE WIDTH	SPEAKERS	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
104B	14"	NO	77-75-60	75.00	77.95	77.17	76.40
105S11	15"	NO	31-35-49	91.00	94.95	94.00	93.06
105B11	15"	NO	53-77-82	106.90	▶	109.95	108.85
107S11	17"	NO	48-12-59	149.00	▶	153.95	152.41
107P10	17"	NO	93-17-28	249.00	▶	254.95	253.42
107B10	17"	NO	36-99-95	194.00	▶	199.95	197.95

OTHER ITEMS
FOR SCREEN FILTERS SEE PAGES 518–525
FOR PCs & ACCESSORIES SEE PAGES 50–185

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶Save £££'s!
▶▶Check live stock
▶▶Track order status

MONITORS

PHILIPS

The **109S10** is competitively priced, offers optional multimedia functionality, an optional USB Hub and delivers best-in-class front-of-screen performance.

The **109B10** is specifically designed to meet the growing demand from business users for a high resolution large screen display while occupying only a small desk space.

The Philips **109P10** 19″ colour monitor is designed with excellent front of screen performance for use with PC, Apple computers workstations. Anti-Glare, anti-static and anti-reflection, high contrast screen coating eliminate any bad effects caused by the screen surface such as reflection of the room lights and dust attraction.
Designed specifically for CAD/CAM and Desktop Publishing applications, the **XSD™ 201B10** is the world's shortest conventional 21″ monitor with a front-to-back space requirement of only 467mm. The 201B10's Flat Square High Contrast CRT features high-resolution 0.26mm dot pitch. An exclusive Auto Calibrate feature is included that guarantees consistent performance and extends the useful life of the monitor by one third.



The **201P10** has the ability to achieve stunning picture quality, high contrast settings, superior brightness and the sharpest images available, using CrystalClear and Pixel-Perfect Technologies from Philips. With a Self Converging Yoke that provides the absolute minimum convergence error and simple one-button set-up. Make quick, accurate and easy onscreen adjustments with custom rotary button and Quick X'it from Philips One-click connectivity. Implement USB Technology with one simple connection into the USB Bay slot.

Model	109S10	109B10	109P10	201P10	201B10
Screen size/type	19″ FST CRT	19″		21″	
Viewable Image Size (MS)	17.9″	18″		20″	
Dot pitch	0.26mm				
Maximum Resolution	1600 × 1200@75Hz	1920 × 1441@60Hz	1600 × 1200@85Hz	1800 × 1440@75Hz	1800 × 1350@75Hz
Ergonomic/ Enviromental standards	Energy Star, NUTEK, MPR II, TCO 95	TCO99, Energy Star, MPR-II, NUTEK, VGSA, DPMS			
Dimensions (W × D × H)	485 × 490 × 490mm	452 × 463 × 420mm	485 × 490 × 515mm	490 × 525 × 551mm	490 × 529 × 551mm
Weight	18.5kg	20.9kg	24.5kg	31.5kg	
Warranty	3 years on-site				

For further warranty and technical data please visit www.monitors.be.philips.com

DESCRIPTION	DIAGONAL TUBE WIDTH	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Philips 109S10	19″	97-53-61	272.00	➧	279.95	277.15
Philips 109B10	19.1″	64-77-84	310.00	➧	319.95	316.75
Philips 109P10	19.1″	75-64-75	359.00	➧	369.95	366.25
Philips 201P10	21″	75-78-11	699.00	➧	719.95	712.75
Philips 201B10	21″	77-83-19	544.00	➧	559.95	554.35
Philips Multimedia Base	—	69-22-82	22.23	24.95	24.20	23.48

OTHER ITEMS FOR SCREEN FILTERS SEE PAGES 518–525

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MONITORS

ADI MicroScan



ProVista E33, E44 and E55
14", 15" and 17" entry-level monitors designed to meet the needs of everyday home and office applications. These monitors offer super flicker-free images, microprocessor controls and are designed to fit within the tightest of budgets. These monitors feature speaker and USB hub options (E55).

MicroScan E66 and E75 Monitor
17" and 19" monitors ideal for the home and business users, providing additional functionalities such as Microprocessor-based front panel controls for easy adjustments, 'EasyScreen' on screen menu for precise screen adjustments and much more. The large display area and Ultra-High resolution performance makes the E66 and E75 the ideal Monitors for profesional applications.

For further technical data please visit www.adimicroscan.com

Model	ProVista E33	ProVista E44	ProVista E55	MicroScan E66	MicroScan E75
Screen size/type	14" CRT	15" FST CRT	17"	19" FST CRT	17" FST CRT
Viewable Image Size (VIS)	12.7"	13.8"	16"	18"	16"
Dot pitch	0.28mm			0.26mm	
Max. Resolution	1024 × 768 @ 60Hz	1280 × 1024 @ 60Hz		1600 × 1200 @ 75Hz	1600 × 1200 @ 65Hz
Ergonomic/ Enviromental standards	Energy Star, NEMKO MPR II, NUTEK, VESA DPMS			VESA DPMS signaling method, EPA/Energy Star, NUTEK/TCO	
Dimensions (W × D × H)	358 × 382 × 364mm		398 × 420 × 418mm	420 × 418 × 398mm	
Weight	11kg	12kg	15.5kg	17.5kg	
Warranty	3 years on-site advanced replacement				

	DESCRIPTION	DIAGONAL TUBE WIDTH	SPEAKERS	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
✂	ADI ProVista E33	14"	Optional	55-77-11	83.50	86.95	86.08	85.22
✂	ADI ProVista E44	15"	Optional	55-77-28	95.00	98.95	97.96	96.98
✂	ADI ProVista E55	17"	Optional	52-95-45	129.11	➧	129.95	129.63
✂	ADI MicroScan E66	19"	N/A	22-49-94	279.95	➧	285.95	284.23
NEW	ADI MicroScan E75	17"	N/A	86-17-61	162.00	➧	165.95	164.95
	ADI SP2000 Speakers for clip on 3 watt speakers (MicroScan 4P, 5P Plus)	N/A	N/A	86-92-41	15.25	15.95	15.79	15.63
	ADI SP3000 for ProVista and G series monitors	N/A	N/A	64-76-78	15.99	17.95	17.41	16.89
	UH-200C USB hub for ADI CRT monitors	N/A	N/A	77-82-35	23.85	24.95	24.70	24.45

OTHER ITEMS
FOR SCREEN FILTERS SEE PAGES 518–525

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MONITORS

New MicroScan FD "Trinitron" Pure-Flat Monitors G500/G710/G910 – 15" (G500) pure flat monitor, 0.25mm aperture grille pitch, 17 (G710) and 19" (G910) with 0.24mm aperture grille pitch. This new range of monitors represent the cutting-edge in monitor technology with pure-flat screens, ultra-high resolutions, zero reflective glare and ultra-high contrast.

MicroScan G66/G1000 – These monitors feature short-length FST (Flat Square Tubes). The 19" G66 has a footprint equivalent to a standard 15" monitor and the NEW 21" G1000 has a footprint equivalent to a 17" monitor. These large screen monitors deliver high resolutions and excellent picture quality and are the ideal choice for professional, DTP and CAD users.

MicroScan G66 – The large screen, short-neck 19" G66 monitor delivers a 1600 × 1200 resolution and excellent picture quality, being the ideal choice for professional DTP and CAD users.



Model	MicroScan G500	MicroScan G710	MicroScan G910	MicroScan G1000	MicroScan G66
Screen size/type	15" FD Trinitron CRT	17" FD Trinitron CRT	19" FD Trinitron CRT	21" FST CRT	19" FST CRT
Viewable Image Size (VIS)	13.8"	16"	18"	20"	18"
Dot pitch	0.25mm	0.24mm		0.26mm	0.26mm
Max. Resolution	1280 × 1024@60Hz	1600 × 1200@75Hz	1792 × 1344@75Hz	1600 × 1200	1600 × 1200@75Hz
Ergonomic/ Environmental standards	TCO 95. NUTEK. Energy Star. VESA DPMS. NORDIC	TCO 95/99. NUTEK. Energy Star. VESA DPMS. NORDIC		TCO 95. NUTEK. Energy Star. VESA DPMS. NORDIC	
Dimensions (W × D × H)	385 × 368 × 408mm	439 × 441 × 441mm	470 × 470 × 463mm	508 × 440 × 490mm	470 × 400 × 483mm
Weight	15kg	21kg	25kg	31.5kg	22.5kg
Warranty	3 years On-Site Advanced Replacement				

USB B

DESCRIPTION	DIAGONAL TUBE WIDTH	SPEAKERS	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
MicroScan G500	15"	Optional	77-93-57	124.00	➧	127.95	126.67	✂
MicroScan G700	17"	—	86-87-04	197.00	➧	202.95	200.92	✂
MicroScan G710	17"	—	38-30-17	239.95	➧	244.95	243.48	✂
MicroScan G910	19"	—	37-00-27	329.95	➧	339.95	336.55	✂
MicroScan G66	19"	Optional	36-98-52	272.00	➧	279.95	277.15	✂
MicroScan G1000	21"	—	55-17-57	568.10	➧	584.00	578.16	NEW
SP3000 Speakers for ProVista & G-Series	—	—	64-76-78	15.99	17.95	17.41	16.89	
UH200C USB Hub for ADI CRT Monitors	—	—	77-82-35	23.85	24.95	24.70	24.45	

OTHER ITEMS

FOR PCs & ACCESSORIES SEE PAGES 50–185

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MONITORS & LCD DISPLAYS

MITSUBISHI ELECTRIC



34-91-78

The **Diamond Scan 50** 15″ is designed to provide years of trouble-free operation. Certified to TCO95 this monitor is the right choice for all basic computing needs.

The **Diamond Scan 70** 17″ has a precise 0.28mm dot pitch which with Microfilter™ technology provides extra high brightness and contrast.

Designed for professional users the **Pro 920 Diamond** display has a precise 0.24mm unified AG pitch and a wide horizontal multi-scanning ability of 30-108kHz achieving a maximum addressable resolution of 1600×1200 at 85Hz.

The **Diamond Plus 91** monitor inherits all the advanced screen performance of the award-winning Pro 900u with easily usable features for everyone from home PC users to professionals. This model features a wide horizontal multi-scanning ability of 30-90kHz and achieves a maximum addressable resolution of 1600×1200 at 75Hz.

Replacing the award winning Diamond Pro710 comes the **Diamond Pro720.** This model combines a DIAMONDTRON NF screen with an enhanced specification 30–90kHz horizontal multi-scanning ability and a maximum resolution of 1600×1200. The Pro720's precise 0.25mm unified AG pitch maximises image clarity and sharpness ideal for graphic-intensive work.

Introducing the latest addition to the award-winning Mitsubishi Diamondtron-NF™ range the **Diamond Plus 200**. With extraordinary picture sharpness and bright colours this display allows users to take advantage of precise text and graphic applications including CAD/CAM and desktop publishing.

Model	Diamond Scan 70	Diamond Pro 720	Diamond Plus 91	Diamond Plus 200
Screen size/type	17″ DiamondTron CRT	17″ DiamondTron NF	19″ DiamondTron NF	22″
Viewable image size (VIS)	16″		18″	20″
Dot pitch	0.28mm	0.25mm	0.25-0.27mm	0.24mm
Maximum resolution	1280×1024@75Hz	1600×1200@75Hz		1800×1440@108Hz
Ergonomic/environmental standards	TCO95, NUTEK, VESA-DPMS, Energy Star, MPR-II	TCO95, Energy Star, MPR-II		Energy Star, Energy 2000, CE-marking
Dimensions (W×D×H)	420×430×420mm	410×435×413mm	454×456×462mm	500×482×500mm
Weight	20kg	17.5kg	23kg	30kg
Warranty	3 year warranty			

www.meuk.mee.com/monitors

DESCRIPTION	DIAGONAL TUBE WIDTH	SPEAKERS	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Mitsubishi Diamond Scan 50	15″	NO	62-37-31	99.95	♦	102.95	102.33
Mitsubishi Diamond Scan 70	17″	NO	62-37-48	165.00	♦	167.95	167.78
Mitsubishi Diamondtron Pro 720	17″	NO	77-93-88	224.00	♦	229.95	228.57
NEW Mutsubishi Diamond Plus 91	19″	NO	38-30-60	319.00	♦	325.95	323.99
NEW Mutsubishi Diamond Pro 920	19″	NO	12-11-73	393.00	♦	399.95	397.55
Mitsubishi Diamond Plus 200	22″	NO	34-91-78	555.00	♦	565.95	562.55

OTHER ITEMS FOR MICE & KEYBOARDS SEE PAGES 280–293

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CRT MONITORS

LG Electronics

The **LG Studioworks 520si, 775C and 995E** are the perfect entry level monitors offering bright, vivid and lifelike images in a clean, distinctive design.

The **SW795 FT+** is the flagship of LG's new range. The 'Flatron' represents a breakthrough in conventional monitor technology. With a 99.9% flat screen which eliminates all distortion and ultra high auto scanning frequencies it ensures that the brightest, most vivid and most lifelike images can be viewed.

The **SW57M and SW77M** combines rich and vibrant sound with bright and vivid images by integrating a stereo amplifier and DOME stereo speakers.

The **Studioworks 221U**. More screen space. More features. More performance. With its big 21" (20" VIS) screen and resolution up to 1880 × 1440, the 221U is ideal for CAD/CAM, graphics and other image intensive applications. What's more, the unique Digital Eye sensor automatically corrects brightness and colour levels according to room lighting conditions.



Model	SW520Si	SW795FT+	SW77M	SW995E	SW221u
Screen size/type	15" CRT	17" CRT	17" CRT	19" CRT	21" CRT
Viewable Image*	14,5"	16"	15.7"	18"	20"
Dot Pitch	0.28mm	0.24mm	0.28mm	0.26mm	0.26mm
Maximum Resolution	1024 × 768 × 75Hz	1600 × 1200@75Hz	1024 × 768@85Hz	1600 × 1200@75Hz	1880 × 1440@80Hz
Ergonomic/ Environmental standards	MPR-II, TCO 95, EPA Energy Star, VESA DPMS				
Dimensions (W × D × H)	360 × 378 × 386mm	415 × 439 × 435mm	465 × 442 × 436mm	448 × 476 × 465mm	498 × 516 × 510mm
Weight	12.7kg	21kg	19.5kg	21.5kg	30kg
Warranty	3 Year On-site swap out warranty				

DESCRIPTION	DIAGONAL SCREEN WIDTH	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
SW520si	15"	20-08-38	89.50	92.95	92.02	91.10	✂
SW57M (inc. speakers)	15"	20-53-53	129.95	◗	133.95	132.61	NEW
SW795FT+ Flatron	17"	20-49-48	206.00	◗	212.95	210.82	✂
SW775C	17"	20-94-83	136.00	◗	139.95	138.55	NEW
SW77M	17"	64-06-42	186.00	◗	191.95	190.03	✂
SW995E	19"	20-17-23	229.00	◗	235.95	233.59	NEW
SW221u	21"	20-53-50	564.00	◗	579.95	574.15	✂

OTHER ITEMS

FOR SCREEN FILTERS SEE PAGES 518–525

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CRT MONITORS

SAMSUNG



SAMSUNG

All **SyncMaster** monitors, with dynamic focus, ensure crisp and sharp edge-to-edge images for a better working display. With high refresh rates the user is assured of a stable and perfect flicker-free image. The 15″ **SM550**, is designed for total performance with digital controls (Display Director™), with 9 factory presets and 11 user definable modes. The UK award winning 17″ products, **SM750/750**, are designed for the most demanding applications. With specifications that are required for advanced business environments, these models offer ultra-high resolutions and refresh rates for superb colour definition with excellent screen clarity.
The **SyncMaster SM950** 19″ monitor is totally flicker-free at all resolutions up to 1600×1200 and has enhanced multi-layer anti-static screen coating as well as the Advanced On-Screen Display Director™. Other features include TCO-'99 compliance and Plug-and-Play.

The **SyncMaster 1100** is a 21″ monitor with a flicker-free resolution of 1600×1200@76Hz. With its 0.26mm dot pitch it possesses intense, dazzling colours and ultra clear contrast. The **1100P Plus** version offers an outstanding resolution of 1800×1440@76Hz.

Model	SyncMaster 550S	SyncMaster 550B(T)	SyncMaster 750P	SyncMaster 950P	SyncMaster 1100P	SyncMaster 1100P+
Screen size/type	15″ FST CRT		17″ FST CRT	19″ FST CRT	21″FST CRT	
Viewable Image Size	13.8″		16″	18″	20″	
Dot pitch	0.28mm		0.26mm		0.21mm	
Maximum Resolution	1024×768@75Hz	1280×1024@60Hz	1600×1200@76Hz			1800×1440@75Hz
Ergonomic/ Enviromental standards	MPR II, TUV, Energy Star NUTEK, VESA DPMS, TCO 95		TCO 99, NUTEK, VESA, EPA 2000	TCO 99, VESA, EPA, NUTEK, Energy 2000		
Dimensions (W×D×H)	362×384×384mm		415×430×438mm	468×473×483mm	504×492×508mm	504×493×510mm
Weight	12kg		17.7kg	21.5kg	26.1kg	
Warranty	1st 12 months on-site			3 years on-site		

For further technical data please visit www.samsungelectronics.com

DESCRIPTION	DIAGONAL TUBE WIDTH	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
SyncMaster 550S	15″	20-17-62	96.00	99.95	98.95	97.96
SyncMaster 550B (T)	15″	20-30-91	114.50	▶	117.95	116.77
SyncMaster 750S	17″	20-53-47	149.00	▶	153.95	152.41
SyncMaster 750P	17″	20-94-79	226.00	▶	229.95	228.57
SyncMaster 950P	19″	20-17-19	291.00	▶	299.95	296.95
SyncMaster 1100P	21″	20-70-24	534.00	▶	549.95	544.45
SyncMaster 1100P+	21″	12-11-30	545.00	▶	559.95	554.35

OTHER ITEMS FOR SCREEN FILTERS SEE PAGES 518–525

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MONITORS

COMPAQ



The Compaq **S900** and **S910** 19″ (18″ viewable) monitor is the perfect choice for budget-conscious power users. Its large screen gives you an increase in productivity, with a 0.22mm dot pitch and 1600×1200 @75Hz resolution.

The **Compaq P900** is a 19″ colour CRT monitor that promotes the transition to larger screen sizes by delivering more viewable image area and enhanced front-to-screen performance at affordable prices.

The **V1100**21″ colour monitor is the best combination of value and performance in the 21″ category. Dual video inputs allows users to connect two PCs to a single V1100 enable users to multi-task and be more productive, while achieving cost savings. The Short Neck CRT design means that the V1100 takes as much desktop real estate as most 19″ and some 17″ monitors.

The **P1100 FD** is the first 21″ monitor to offer FD Trinitron technology. It features a 19.9″ viewable image size and 1600×1200@85Hz maximum, resolution.

The **Compaq P1610** Colour monitor is a high performance wide format 24″ monitor. It has a viewable image size of 22.5″ making it ideal for DTP and CAD applications where detailed, full scale on screen viewing is essential. The P1610 has a maximum resolution of 1920×1200@76Hz. It has an anti-static, anti-glare coating and 1 year on-site warranty.

Model	S900	S910	P900	V1100	P1100	P1610
Screen size	19″	19″	19″	21″	21″ Trinitron	21″ Trinitron
Maximum Resolution	1600×1200@85Hz	1600×1200@75Hz	1920×1440@70Hz	1920×1440@70Hz	1600×1200@??Hz	1920×1440@85Hz
Ergonomic Approvals	TCO99	MPR11 & TCO99	TCO95, VESA	MRP11 & TCO99	MPR11 & TCO95	TCO95, VESA
Dimensions (W×D×H)	461×460×469mm	000×000×000mm	462×455×449mm	000×000×000mm	511×524×502mm	500×580×548mm
Weight	26kg	26kg?	26kg	32kg	32kg	41kg

USB

DESCRIPTION	DISPLAY SIZE	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Compaq S900	19″	63-62-78	319.00	▶	329.95	326.65	✂
Compaq S910	19″	63-76-93	309.00	▶	315.00	313.11	NEW
Compaq P900	19″	62-17-17	389.00	▶	399.95	395.95	
Compaq V1100	21″	63-32-00	565.00	▶	574.95	571.50	✂
Compaq P1100	21″	63-70-21	188.27	▶	195.00	193.05	
Compaq P1610	24″	88-53-45	1295.00	▶	▶	1309.95	✂

OTHER ITEMS

FOR COMPAQ DESKTOP PCs SEE PAGES 154–163

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MONITORS

Hewlett-Packard offer a wide range of monitors to partner its popular Vectra range of PCs. All come complete with tilt/swivel stand and have convenient contrast, brightness and image positioning controls as well as a 15-pin cable for connecting to your PC.

Model	HP 52	HP 71	HP 75	HP 90	HP 910	HP 1110
Screen size/type	15"	17"		19"		21"
Viewable Image Size (VIS)	13.8"	15.9"	16"	18"		19.8
Dot pitch	0.28mm		0.26mm		0.25mm	0.24mm
Maximum Resolution	1024 × 768@60Hz	1280 × 1024@60Hz	1600 × 1200@60Hz	1600 × 1200@75Hz	1600 × 1200@ 85Hz	1800 × 1440@ 80Hz
Ergonomic/ Environmental Standards	MPRII, VESA, Energy Star			Energy Star, Blue Angel	MPRII, EPA, TCO99, Blue Angel	Energy Star, MPRII, VESA, DPMS, NUTEK, TCO95
Dimensions (W × D × H)	376 × 385 × 373mm	420 × 432 × 452mm		468 × 479 × 458mm	471 × 470 × 464mm	512 × 512 × 502mm
Weight	12.5kg	16kg	16.2kg	24.3kg	25.3kg	31kg
Warranty	1 year on-site	3 years international exchange limited hardware warranty				

DESCRIPTION	DISPLAY SIZE	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
HP 52	15"	96-30-86	105.00		109.95	108.85
HP 71	17"	20-94-80	159.00		164.95	163.30
HP 75	17"	20-17-21	217.00		222.95	222.39
HP 90	19"	55-94-65	319.00		329.95	326.65
HP 910	19"	38-29-58	419.00		425.95	423.39
HP P1110A	21"	41-17-62	699.00		719.95	712.75

UPGRADE YOUR WARRANTY SEE PAGES 424-425 HP SUPPORTPACK

MONITORS

FUJITSU SIEMENS COMPUTERS

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
15" MCM 153V	63-18-41	111.00		114.95	113.80
15" e156	20-53-49	132.00		135.95	134.59
17" MCM 171E	64-19-10	149.00		154.00	153.08
NEW 17" x178	63-37-08	218.00		224.95	222.70
19" x192	22-12-47	407.59		419.00	414.81

MONITORS

TOSHIBA

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
TekBright 520	94-73-88	146.95		149.95	149.95
TekBright 720	12-11-14	265.00		272.95	270.22
TekBright 920	40-78-11	354.00		364.95	361.30

OTHER ITEMS

FOR HP DESKTOP PCs SEE PAGES 137–145

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

VISUAL DISPLAY TERMINALS

WYSE

KEY FEATURES: WY-55 and WY-55ES
- ASCII, ANSI, PCTerm and UNIX console personalities.
- Up to 80Hz flicker-free refresh rate with Overscan.
- Two serial ports, up to 115.2 kbaud.
- Superb text display quality and video focus.

KEY FEATURES: WY-65 and WY-65ES
- IBM 3151, WY-60, VT320, PCTerm and UNIX console personalities.
- Up to 94Hz flicker-free refresh rate with Overscan.
- Two serial ports, up to 115.2 kbaud.
- Parallel printer port.

KEY FEATURES: WY-120 and WY-120ES
- Extra fast 78Hz flicker free display.
- Overscanned video for full screen image.
- Conveniently located clustered controls.
- Serial and parallel printer ports.
- Fully compatible with the WY-50 and WY-120.



KEYBOARD NOT INCLUDED

DESCRIPTION	CAT NO WHITE	CAT NO AMBER	CAT NO GREEN	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
WY-55 – **keyboard not inc.**	76-15-76	76-15-83	76-15-90	199.00	▶	205.95	203.89
WY-55ES – **keyboard not inc.**	76-16-00	—	—	209.00	▶	215.95	213.79
WY-65 – **keyboard not inc.**	79-60-39	79-60-46	79-60-53	248.00	▶	254.95	252.40
WY-65ES – **keyboard not inc.**	79-60-60	—	—	258.00	▶	265.95	263.29
WY-120 – **keyboard not inc.**	92-21-64	92-21-88	92-21-71	238.00	▶	244.95	242.50
WY-120ES – **keyboard not inc.**	92-21-95	—	—	252.00	▶	259.95	257.35

WY-185ES
KEY FEATURES:
- 11MHz 8032 Microcontroller.
- Exceeds the most stringent ergonomics and safety standards in the world.
- High resolution character mode for crisp, clear text and backward compatibility with VT220 soft font.
- 85Hz refresh and overscan video for superior flicker free display.
- Wyse modular connector for easy installation.
- 14" diagonal, flat, non-glare CRT with electrostatic field reduction.
- Tilt and swivel adjustments.
- Borderless full screen image.

WY-520 and WY-520ES
KEY FEATURES:
- 15MHz 8032 Microprocessor.
- Wyse WY-60 native mode and Wyse PCTerm.
- UNIX Console mode.
- VT420 compatible.
- Uncompromising backward compatibility: WY-85, VT320/100/52.
- Flexibility in host connections.
- NVR savable, host-or user-programmable Function Keys.
- Auto-sensing power supply.
- Selectable 85Hz Refresh rate.
- DEC PCTerm supported.
- 14" diagonal, flat, non-glare CRT with selectable overscan.

DESCRIPTION	CAT NO WHITE	CAT NO GREEN	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
WY-185ES – **Keyboard not inc.**	67-52-77	—	223.00	▶	229.95	227.65
WYSE ANSI Keyboard (105 key)*	92-22-36	—	66.00	69.95	69.25	68.56
WY-185ES & Keyboard bundle	04-36-03	—	282.00	▶	289.95	287.05
WY-520 – **keyboard not inc.**	75-22-17	75-22-55	207.00	▶	212.95	210.82
WY-520ES – **keyboard not inc.**	75-22-79	—	213.00	▶	219.95	217.75
Wyse IBM PC Keyboard (**103 key**)	92-22-12	—	66.00	69.95	69.25	68.56
Wyse ASCII Keyboard (**101 key**)	92-22-29	—	66.00	69.95	69.25	68.56

***For use with WY-185ES only.**

OTHER ITEMS

FOR SCREEN FILTERS SEE PAGES 518–525

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

VISUAL DISPLAY TERMINALS

WYSE



The **Winterm 3200LE** modular Windows-based terminal is an entry-level Winterm terminal that is ideal for users in a LAN environment who use a standard suite of office productivity applications, plus e-mail and Internet browsing and who utilise network-based peripherals, including printers.

The **Winterm 3350SE** supports industry-standard network management strategies, including SNMP and DHCP, allowing for remote configuration management, firmware upgrades and asset management. With no moving parts like a fan or hard disk, these units require virtually no maintenance.

The **Winterm 3720SE** Windows-based terminal is integrated with a low cost, high quality 15" colour CRT display to provide an all-in-one model with a terminal-sized footprint. It can be used effectively and affordably in busy retail, financial, call centre, manufacturing, office sites and transaction processing.



The **Winterm 3320SE** modular Windows-based terminal is for users who have limited space, or want to match an existing or new monitor to specific needs. The Winterm 3320SE is ideal for users who have the need for legacy I/O, including local printing or peripheral support and comes with integrated 16-bit stereo sound capability and 10/100Base-T network support.

The **Winterm 3360SE** Windows-based terminal is the best way to simplify desktop and IT management, while building increased flexibility, productivity, security and longevity into the computing environment. It is the most powerful full-featured Windows-based terminal available, with an unmatched array of communications and connectivity features and legacy system emulations. Its slim, modular design allows for implementation with existing monitors.

The **Winterm 8360SE,** based on the Microsoft® Windows NT® 4.0 embedded operating system, is the first Wyse terminal to allow the embedding of local 32-bit Windows applications. Vital Windows applications which cannot be server-based can be embedded on the model 8360SE, multimedia applications can be accessed locally and with Internet Explorer 5.0, there is full local Internet and Intranet access with plug-in support.

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	Wyse 3200LE Terminal	62-53-49	304.43	▶	312.95	309.82
NEW	Wyse USB Keyboard for 3200LE	62-94-78	20.45	22.95	22.26	21.59
NEW	Wyse 3320SE Terminal	62-17-21	389.06	▶	399.95	395.95
NEW	Wyse 3350SE Terminal	62-17-72	437.70	▶	449.95	445.45
NEW	Wyse 3360SE Terminal	62-30-95	471.74	▶	484.95	480.10
NEW	Wyse 3720SE Terminal	62-53-50	544.70	▶	559.95	554.35
NEW	Wyse 8360SE Terminal	62-94-79	632.25	▶	649.95	643.45
NEW	Wyse PS/2 Keyboard for 8360SE	62-17-22	20.45	22.95	22.26	21.59

OTHER ITEMS
FOR SCREEN FILTERS SEE PAGES 518–525

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

VIDEO CONFERENCING ACCESSORIES

CREATIVE intel 3com



Intel Create & Share Camera Pack provides you with the perfect business communications solution, all in one affordable pack.

Create & Share's rich visual communications software suite allows you to see and connect with customers and colleagues like never before. Included is an Intel PC camera, Intel Video Phone with Intel ProShare technology, and Intel Create & Share software. Create & Share makes it easier to project a more professional image.

- Capture and enhance snapshots and videos then share them with others.
- Add animation to your Web site.
- Make and print cards and calendars personalised with your snapshots.
- Add multimedia flair to presentations and business communications.
- Make video calls over the Internet

Introducing the newest video innovation from **Creative Labs,** the one-of-a-kind **Video Blaster WebCam Go!** Break away from the crowd, pull the plug and unleash your creativity with this versatile, portable desktop PC camera. Use it like any other WebCam, then simply unplug the WebCam Go and go. Take it anywhere, photograph anything and bring the pictures back to your computer to share with the world.

- Four Image Capture Modes – Single-frame mode takes a snapshot when you press the button. Multi-frame mode: press the button once and it automatically takes multiple images.
- Extra Long Battery Life – Uses easy-to-find standard AAA batteries for convenience. The batteries are used only when the camera is in mobile mode.
- LCD Control Panel – A monochrome LCD on the back of the camera operates in mobile mode. It displays the approximate number of frames left in memory, a mode indicator (single exposure, multiple exposure, timed exposure or timed multiple exposure) and a low-battery indicator.
- Optical Viewfinder – Extends battery life.
- Five Element Focusable Glass Lens – 15cm to infinity.



PC Digital Home Connect WebCam

Sharp, clear pictures in low light.

The people you feel the closest to may be the ones who life farthest away. But weekly cross-country motorway trips are time-consuming and a voice on the phone can't show you the latest in fingerpaint masterpieces. The 3Com® HomeConnect™ PC Digital WebCam can bring you closer, wherever you are.

- Video snapshots, video e-mail, video phone calls, Webcam.
- Adjusts automatically from bright to dim light.
- 'Grab and go' camera detaches from 9ft. cable.
- Install and see live video in minutes.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Intel Create & Share Camera Pack (USB)	67-49-62	54.00	56.95	56.38	55.82	✂
Creative Labs WebCam III	30-17-57	45.95	47.00	46.72	46.44	
Creative Labs WebCam Go	53-00-63	82.00	85.95	85.09	84.24	✂
3Com HomeConnect WebCam	62-22-64	79.23	79.95	79.75	79.55	NEW

OTHER ITEMS

FOR MONITORS SEE PAGES 295–322
FOR SPEAKERS SEE PAGES 335–336
FOR KEYBOARDS, MICE & POINTING DEVICES SEE PAGES 280–293

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DESKTOP VIDEO CAMERAS

PHILIPS LOGITECH



The **New Desktop Video Camera** from **Philips** offers excellent video resolution and a built-in microphone of HI-FI quality.
The **PC Video Camera Vesta** offers high quality streaming video performance of up to 320 × 240 pixels together with Philips Videogram software making it easy to send brilliant video-mails. Its ergonomic and award winning design means it can be easily hand-held or placed on a desk or computer. The pivot and rotating lens, with its sharp picture quality zoom-in, allows you to easily adjust, point and focus.
The **PC Video Camera Vesta Pro** with its **USB** connectivity enables you to just plug the camera into a free USB socket and you're ready to shoot video of high quality for video conferencing or video-mail. This camera provides outstanding digital audio performance with its built-in microphone – all powered through the USB.

FEATURES:
Vesta
- Macro focus makes it possible to zoom in while retaining a sharp picture.
- The built-in microphone combines video/audio.
- Produces live video across a range of resolutions.
- With Philips Videogram software video-mails, video clips and still photos are easily created.

FEATURES:
Vesta Pro
- True Plug and Play USB connection – no need to switch off or reboot.
- Captures digital audio quality through USB port.
- Ergonomic design allows you to position and point the camera in any direction.

USB



The simple way to get closer. All you need is **QuickCam® Express** and the Internet. Just plug it in, install the software and you're ready to go in minutes. You can meet face-to-face online by making live video calls with the free version of NetMeeting™ video chat software included.
- Capture stills and video instantly.
- E-mail images in a single click.
- Meet face-to-face online.
- Works with Windows® 95 or



QuickCam® Web
Internet video. Make contact.
- Capture colourful full-motion video and sharp, still images.
- Send photo and video e-mail instantly.
- Meet face-to-face online.
- Includes built-in microphone for easy conversation.
- Plugs right into your PC.



QuickCam® Pro. Express yourself with high quality pictures and videos.
- Large, more vibrant pictures.
- Video conferencing, video e-mail, web pages and more.
- Tilts/swivel base with built-in clamp.
- Telephoto and wide angle lenses available.
- Installs in minutes.

DESCRIPTION	INTERFACE	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Philips Vesta 15FPS PC Video Camera	USB	66-76-11	41.00	42.95	42.52	42.10
Philips Vesta Pro 30FPS PC Video Camera	USB	57-39-13	45.00	47.95	47.47	47.00
Logitech QuickCam Web	USB	86-87-06	51.50	53.95	53.41	52.88
Logitech QuickCam Express	USB	30-49-48	26.50	27.95	27.67	27.39
Logitech QuickCam VC	Parallel	62-41-56	44.45	46.55	46.08	45.62
Logitech QuickCam Pro	USB	30-53-46	75.00	77.95	77.17	76.40

OTHER ITEMS
FOR DIGITAL CAMERAS SEE PAGES 329–343

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

SPEAKERS

PHILIPS

Introducing the **Philips** range of PC speakers. The **MS series** are cost-effective and provide quality and reliability. The new **Digital DSS** series with USB interface provide the highest sound quality for superior multimedia entertainment. Features include: hot plug and play, Graphic User Interface, Incredible surround sound and Dynamic Bass Boost.









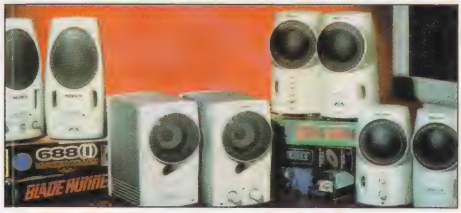
Model	MMS140	MMS240	DSS350	DSS370
Frequency response	70Hz-20KHz	60Hz-20KHz		
Power output	15W RMS		720W	
Features	Volume control, bass reflex		3D spatializer sound, variable treble/bass, digital sound	

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Philips MMS140	53-78-51	19.56	21.95	21.29	20.65	NEW
Philips MMS240	53-64-70	29.36	32.95	31.96	31.00	NEW
Philips DSS350	62-38-72	47.74	49.95	49.45	48.96	
Philips DSS370	62-38-89	69.95	74.95	74.20	73.46	✂

SPEAKERS

SONY

Sony continues to apply its expertise in high-fidelity sound to its PC speakers with the introduction of a whole new range. The new speakers are built to fulfil the multimedia requirements of the most discerning user. They are stylish, combine high output with low distortion and provide a balanced frequency response with flexible controls.



Model	SRS-PC15	SRS-PC35	SRS-PC51	SRS-Z1000PC
Frequency response	80Hz-20KHz		80Hz-20KHz	50Hz-20KHz
Power output PMPO	15W	60W	50W	130W
Features	Variable boost control, volume control		Variable Base boost treble & volume control	Variable boost control, volume control

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Sony SRS-PC15	62-38-34	15.99	17.95	17.41	16.89	
Sony SRS-PC35	62-38-27	28.50	29.95	29.65	29.35	
Sony SRS-PC51	93-17-19	43.90	45.95	45.49	45.04	
Sony SRS-Z1000PC	62-38-10	121.00	◗	125.95	124.69	✂

OTHER ITEMS

FOR TV CARDS SEE PAGE 237

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

SPEAKERS

LOGITECH YAMAHA





Logitech SoundMan speaker systems, with patented LIMAD™ (Linear Magnetic Drive) technology, deliver home-theatre hi-fi sound quality.

SoundMan G1
The Perfect PC audio solution for the small or home office, these sleek, compact speakers add life to games, CD's and multimedia with their full-range quality sound.

SoundMan X1
This 25 watt compact subwoofer and satellite system adds full, complex richness and crisp, clear sound to your multimedia computer, portable CD player, or TV.

SoundMan X2
Delivering Theatre-quality audio with crisp, clear highs and deep, rich bass, this high-performance 40 watt subwoofer and satellite speaker system brings concert-hall clarity to your favourite music and ultra-realistic high fidelity sound to your multimedia applications.

Yamaha speakers will bring your multimedia and home cinema applications to life.
All speakers feature Yamaha's unique AST (Active Servo Technology) for enhanced bass response.

Model	Yamaha YST-M8	Yamaha YST-MS28	Yamaha YST-MS55D
Frequency response	80Hz-20KHz	40Hz-20KHz	32Hz-20KHz
Speakers power output	5w+5w RMS	5w+5w+15w Subwoofer (Total Power)	20w+20w+40w Subwoofer (Total Power)
Features	Active Servo Technology, magnetically shielded, power on LED indicator, front headphone jack, volume control		
Accessories	AC adaptor, 3.5mm stereo mini plug cable (1.8m), RCA pin plug cable (1.8m)	AC adaptor, 3.5mm stereo mini plug cable (1.8m)	

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Logitech SoundMan G1 Speakers (8watts RMS)	77-83-22	22.00	24.95	24.20	23.48
Logitech SoundMan X1 Speakers (25watts RMS)	12-10-56	37.95	39.95	39.55	39.15
Logitech SoundMan X2 Speakers (40watts RMS)	64-77-88	52.00	54.95	54.40	53.86
Yamaha YST-M8 Speakers	86-16-72	26.00	29.95	29.05	28.18
Yamaha YST-MS28 Speaker System	86-76-70	45.00	49.95	49.45	48.96
Yamaha YST-MS55D Speaker System	86-78-01	79.00	82.95	82.12	81.30

OTHER ITEMS FOR MULTIMEDIA PRODUCTS SEE PAGES 325–328

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

GUIDE TO DIGITAL CAMERAS

Action offer a wide range of Digital Cameras suitable for most needs, from creating web pages to producing mailers. The most important aspects of such cameras will differ depending on their proposed use but resolution, memory, number of images and portability are the main considerations. The quick reference chart below gives a brief guide to the cameras on the following pages but it is universally true that the higher the memory, the higher the number of images while the higher the resolution setting, the fewer the images.

Model	Image Resolution (max)	No of Images (max)	Memory	Page No.
Epson PhotoPC 650	1152×864	88	8MB CompactFlash	338
Epson PhotoPC 800	1984×1488	133	8MB CompactFlash	338
Epson PhotoPC 850z	1984×1488	133	8MB CompactFlash	338
Sony DSC-S50	1600×1200	65	4MB MemoryStick	330
Sony DSC-F505	1600×1200	65	4MB MemoryStick	330
Sony DSC-S70	2048×1536	65	4MB MemoryStick	330
Sony MVC-FD73	640×480	30	TBA	331
Sony MVC-FD85	1280×960	30	TBA	331
Sony MVC-FD90	1280×960	30	TBA	331
Sony MVC-FD95	1280×960	30	TBA	331
Kodak DC215	1152×864	54	4MB CompactFlash	332
Kodak DC240	1280×960	180	8MB CompactFlash	332
Kodak DC240i	1280×960	180	8MB CompactFlash	332
Kodak DC280	1760×1168	245	20MB CompactFlash	333
Kodak DC290	1792×1200	220	20MB CompactFlash	333
Olympus C-860L	1280×960	122+	TBA	334
Olympus C-960 Zoom	1280×960	122+	4MB Panoramic Card	334
Olympus C-2020 Zoom	1600×1200	82+	8MB SmartMedia	334
Olympus C-2500L	1712×1368	83+	TBA	334
Casio QV2000DDA	1600×1200	55	8MB CompactFlash	335
Casio QV8000SX	1280×960	55	8MB CompactFlash	335
Casio QV3000EX	2048×1536	113	TBA	335
Canon PowerShot A50	1280×960	105	8MB CompactFlash	336
Canon PowerShot Pro 70	1586×1024	236	TBA	336
Canon PowerShot Pro S10	1600×1200	24	TBA	336
Sanyo digiCAM 360	1024×768	60	TBA	337
Sanyo digiCAM 380	1280×960	60	TBA	337
Sanyo digiCAM 400	1280×960	60	TBA	337
Sanyo digiCAM 550	1360×1024	77	TBA	337
Nikon CoolPix 950	1600×1200	32	8MB CompactFlash	339
Nikon CoolPix 990	2048×1536	32	8MB CompactFlash	339

For additional digital camera memory cards please see page 343.

OTHER ITEMS

FOR DIGITAL CAMERA CASE SEE PAGE 101
FOR DIGITAL CAMERA MEMORY SEE PAGE 343

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DIGITAL CAMERAS

SONY



Sony introduce the New **Cyber-Shot DSC-S50** and **DSC-S70** Digital Still Cameras. With up to 3.3 megapixel resolution delivering a high colour depth and sharp resolution that makes it possible to do cut-outs and enlargements with very little loss in picture quality. Storing high quality images is made possible using Sony's powerful Memory Stick for fast and easy data transfer.

DSC-S50 and DSC-S70
FEATURES:
- ½.7" 2.1 (1/1.8" 3 on DSC-S70) Mega Super HAD CCD.
- 3 × Zoom (6 × Precision Digital Zoom).
- MPEG Movie (HQ).
- External Flash Terminal (on DSC-S70).

Like all Cybershots, the **DSC-F505** is perfect for all creative experiments due to its megapixel resolution. The ergonomic design and the 140° movable zoom give you complete control – even when you shoot from complex angles. The 2.1 million pixel CCD-Chip and the Carl Zeiss precision zoom guarantee you a high-quality camera. In addition, the MPEG-Voice Memo Mode allows you to record short movie sequences or "Voice Memos".

DSC-F505
FEATURES:
- ½" 2.1 Mega Super HAD CCD.
- 5 × Zoom (10 × Precision Digital Zoom).
- MPEG Movie.
- Auto-Focus.
- Built-in Flash.

Model	DSC-S50	DSC-505	DSC-S70
Image resolution	1600 × 1200		2048 × 1536
No. of images	Up to 65 UXGA		
Shutter speed (secs)	18-step, 4 – 1/125"	1/6 to 1/600th	18-step, 4 – 1/125"
Aperture	f2.8	f2.8–3.3	f2.8
Interface	USB	USB & Serial	USB
Software	Picture Gear 3.2 Lite		
Contents	AC Adaptor, 4MB memory stick, serial cable (and USB DSC-505), NP-F10 battery. Rechargeable battery and battery charger, 8MB memory stick, PC card parallel port adaptor		
Weight	0.385kg	0.435kg	0.329Kg
Warranty	12 months off-site		

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	Sony Cyber-Shot DSC-S50	53-01-22	399.00	▶	412.95	408.82
✂	Sony Cyber-Shot DSC-F505	90-52-64	499.00	▶	519.95	514.75
NEW	Sony Cyber-Shot DSC-S70	64-23-29	505.00	▶	521.95	516.73

OTHER ITEMS FOR DIGITAL CAMERA CASE SEE PAGE 101

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

DIGITAL CAMERAS

SONY

MVC-FD73
This Digital Mavica® comes with a 10X Optical Zoom lens and Auto Focus with Auto Macro, bringing you as close as one inch to your subject while maintaining sharp focus.

MVC-FD85
The MVC-FD85 features a high performance 1.3 million Mega Super HAD CCD pixels. This will display professional-looking still image with excellent picture clarity and true to life colour reproduction.

MVC-FD90
The MVC-FD90 uses Sony's interpolated imaging technology which allows the camera to realise a 17% increase in image size, delivering a 1 million pixel image.

MVC-FD95
The MVC-FD95 uses ½.7" 2.1 Mega Super HAD CCD images, 10× Zoom (20× Precision Digital Zoom), an Optical SteadyShot feature and an External Flash Terminal.



64-95-81

FOR DIGITAL CAMERA MEMORY SEE PAGE 348

Model	FD73	FD85	FD90	FD95
Image Resolution	640×480	1280×960		
No of Images	15 Fine, 30 Standard			
Aperture	f1.8-f2.9			
Zoom	10× Zoom	2× Zoom (6× precision digital zoom)	8× Zoom (16× precision digital zoom)	10× Zoom (20× precision digital zoom)
Shutter Speed	1/60 – 1/4000 (Auto)			
Dimensions	138×62×103mm			
Weight	0.59kg w/battery			
Warranty	12 months			

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Sony MVC-FD73 Digital Camera	27-36-84	323.00	➧	335.95	332.59	✂
Sony MVC-FD85 Digital Camera	38-17-58	395.00	➧	409.95	405.85	NEW
Sony MVC-FD90 Digital Camera	36-30-86	499.95	➧	515.95	512.85	NEW
Sony MVC-FD95 Digital Camera	64-95-81	645.00	➧	659.95	655.99	NEW

OTHER ITEMS

FOR DIGITAL CAMERA CASE SEE PAGE 101

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
»Save £££'s!
»Check live stock
»Track order status

DIGITAL CAMERAS

Kodak PRODUCTS



Just Point, Shoot and Print incredible digital images in a flash with this great value bundle from Kodak. Includes Kodak's top selling **DC215** megapixel zoom digital camera and **PM100** colour printer that prints direct from the camera. It's so easy – everything is included in the box and you don't even need a PC!

Model	Lexmark PM100 Printer
Resolution Interface	Up to 1200 × 1200dpi
Printing Technology	Thermaal Inkjet, Laser-crafted Ink Cartridge
Photo Processor	Lexmark built-in camera computer
Dimensions (W × D × H)	21.3 × 41 × 18.3cm
Weight	3kg



Capture great moments digitally with the great-looking, easy-to-use Kodak **DC215** Zoom Digital Camera. It's a snap to use, thanks to the award-winning interface and controls. And we've packed all this functionality into a silver metal-skinned design, among the most compact on the market. The **Kodak PalmPix Camera** adds visual capture capability to your Palm Handheld. Compact, lightweight and easy to use, PalmPix lets you frame, take, review and transfer pcitures to your Palm through its serial connector. Review your images in colour on the Palm IIIc LCD, or view images in grayscale on other models.



The **DC240** has been designed for business. A fast, high resolution (1.3 million pixels), feature-packed and easy-to-use digital camera that produces great images.

For further warranty and technical data please visit www.kodak.com

NEW REDUCED PRICE

Model	DC215	DC240
Image resolution	1152 × 864	1280 × 960
No. of images	Up to 54*	Up to 180*
Shutter speed (secs)	½ to 1/166nd	½ to 1/750th
Aperture	f/4.0 to f/16.0	f/2.8 to f/25.7
Colour recognition	24-bit, millions of colours	
Interface	Serial, PC card reader	USB, serial, PC Card
Software	Adobe PhotoShop & PageMill, Arcsoft Photo Printer	Kodak Picture Easy, Adobe Photodeluxe Adobe PageMill
Contents	Camera, 4MB CompactFlash card 4 × A4 batteries	Camera, 8MB card, Rechargeable batteries and Charger, USB and Video cables
Dimensions (W × D × H)	115 × 44 × 68mm	133 × 52mm
Weight	0.303kg	0.342kg
Warranty	12 months return to manufacturer	

* On memory card provided.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Kodak DC215 (includes 4MB memory card)	40-17-59	189.00	➧	195.95	194.77
NEW Kodak DC215 Digital Camera + PM100 Personal Printer	88-30-88	248.00	➧	252.95	251.43
✂ Kodak DC240 (includes 8MB memory card)	64-31-58	252.00	➧	259.95	257.35
Kodak PalmPix Camera	97-17-31	111.95	➧	115.95	114.79

OTHER ITEMS

FOR DIGITAL CAMERA CASE SEE PAGE 101
FOR OCR & IMAGE EDITING SOFTWARE SEE PAGES 837–855

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DIGITAL CAMERAS

Kodak PRODUCTS



Fast, responsive and sophisticated, the **DC280** zoom Digital Camera means business. A first for Kodak, the stunning two megapixel resolution delivers enough detail for 8″ × 10″ prints and with the 8MB CompactFlash memory card provided, you can capture up to 245 images. Plus, like all Kodak's cameras, it is easy to use – it even looks and feels like cameras you're familiar with.

- Two-megapixel resolution (1760 × 1168).
- Quick, responsive performance – no waiting.
- USB connectivity for downloads up to 10 times faster than serial interfaces.
- 30mm to 60mm wide angle lens, with 2 × optical/3 × digital zoom.
- Rechargeable NiMH batteries and charger help cut down on battery costs.

The **DC290** Zoom Digital Camera has a 2.1 megapixel high resolution that can be increased to up to 3.3 million pixels with the 'ultra' mode. There is also the ability to 'learn' scripts and applicatios much like you'd customise your PC with different software applications. Adjust, edit and apply special effects. Control and customise camera settings. Create animations, all inside your camera. Whether it's for the most demanding business applications or sophisticated personal use, the DC290 is one very smart purchase.

- Two-megapixel resolution (1792 × 1200) for photo-realistic 8″ × 10″ prints.
- Ultra resolution mode lets you take even larger prints.
- 3x optical plus 2x digital zoom lens.
- DIGITA scripting.
- USB support for faster downloads.
- Upgradeable over the Internet as new features and capabilities evolve.
- 20MB CompactFlash memory card and software in the box.

FOR MEMORY CARDS, SEE PAGE 343

Model	DC280	DC290
Image Resolution	1760 × 1168	1792 × 1200 pixels (high)
No. of images	Up to 245	Stores 28 to 220 pictures
Shutter speed (secs)	½ to $\frac{1}{765}$th	$\frac{1}{400}$th to 16 seconds
Aperture	f/3.0 to f/9.6	f/3.0 to f/15.3
Interface	USB, Serial PC card reader	
Software	Adobe Photodeluxe & Adobe Pagemill, Arcsoft Photo Printer	
Contents	Camera, 8MB Compactflash Card, 4 × AA batteries, NiMH rechargeable batteries, battery charger, USB and video cables	20MB Compactflash Card, 4 × AA batteries, NiMH rechargeable batteries, battery charger, USB and video cables
Dimensions (W × D × H)	133 × 52 × 76mm	188 × 570 × 160mm
Weight	0.342kg	525g
Warranty	12 months return to manufacturer	

Premium Pack includes: 16MB memory card, PCMCIA adaptor, 4x rechargeable batteries, camera bag, Albuming software.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Kodak DC280 (includes 8MB memory card)	42-30-86	319.95	▶	334.95	331.60	NEW
Kodak DC290 Zoom (includes 20MB memory card)	40-53-48	479.95	▶	489.95	487.01	✂
Premium Pack for Kodak Digital Cameras	64-31-61	89.95	94.95	94.00	93.06	

OTHER ITEMS

FOR DIGITAL CAMERA CASE SEE PAGE 101

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DIGITAL CAMERAS — OLYMPUS





Olympus have used all of their photographic expertise to provide their compact digital cameras with superior quality lenses, producing crisp, sharp images. All models feature Autofocus and variable power flash, with red-eye reduction to ensure perfect exposure, and removable SmartMedia memory cards allow an unlimited number of shots to be taken. Photos can be viewed on the built-in LCD or via a TV monitor, and printed direct on the new P-330E printer. The optional **FlashPath** adaptor allows faster download to your PC or MAC via your floppy disk drive.

Model	C-860L	C-960 Zoom	C-3030 Zoom
Image resolution	1280 × 960		2040 × 1536
Number of images	2/18/32/36/122 (per 8MB SmartMedia)		1–165 (with 16MB SmartMedia)
Optical Lens	36mm	35-105mm	32-96mm (equivalent)
Digital Tele	2X		3X
Aperture	f2.8, f5.6 and f11 (auto select)	f4.4 or f12.6 (auto select)	f2.8 to f11.0
Shutter speed (secs)	1/24 to 1/500 sec	1/2 to 1/1000 sec	1 to 1/10,000 sec
Interface	PC & Mac		
Content	Camera, software, cables and batteries		
Dimensions (W × D × H)	128 × 47 × 65mm	127 × 53 × 66.5mm	109.5 × 66.4 × 76.4mm
Weight	0.23kg	0.27kg	
Warranty	12 months return-to-base		

FOR MEMORY CARDS, SEE PAGE 343

www.olympus-europa.com

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	Olympus C-860L	77-83-55	245.95	◗	249.95	248.45
NEW	Olympus C-960 Zoom	64-78-42	329.95	◗	335.95	333.93
✂	Olympus C-2020 Zoom	27-36-96	449.95	◗	459.95	457.19
NEW	Olympus C-3030 Zoom	75-64-82	649.95	◗	659.95	655.99
✂	Olympus C-2500L	52-99-20	654.95	◗	665.95	661.95
✂	Olympus P-330NE Digital Printer	62-39-37	335.45	◗	344.95	341.50
	Olympus Flash Path Adaptor for SmartMedia	55-43-98	56.95	59.95	59.35	58.76
✂	Olympus SmartMedia 8MB Card	68-63-90	28.45	29.95	29.65	29.35
NEW	Olympus SmartMedia 8MB Card (Template)	68-53-45	28.45	29.95	29.65	29.35
	Olympus AC Adaptor	89-78-04	59.95	62.95	62.32	61.70

OTHER ITEMS
FOR OCR & IMAGE EDITING SOFTWARE SEE PAGES 837–855
FOR DIGITAL CAMERA CARRY CASE SEE PAGE 101

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
›› Save £££'s!
›› Check live stock
›› Track order status

DIGITAL CAMERAS

CASIO



The **QV2000DDA** from **Casio** has 2 million pixels with enhanced features and high quality optical viewfinder with easy to operate USB connectivity. The QV2000UX has an easy operating menu, auto image installation and HTML file generation.
The **QV8000SX** is designed to appeal to the professional/serious amateur photographer. The QV-8000SX has 1.3 Megal Pixel and with 32x Zoom (8 × optical and 2x, 4x digital).



NEW! The **Casio QV3000EX** Digital Camera – the world's first 3.3 million pixel camera, delivers unsurpassed picture quality at an amazing 2048 × 1536 image resolution. Together with support for IrTran-P, the infrared data communication protocol, which provides wireless data exchange with other devices such as the Casio E105 and Nokia 9110. A serial/USB/video output also enables easy transfer of your images onto a PC.

Model	QV2000DDA	QV8000SX	QV3000EX
Image resolution	1600 × 1200	1280 × 960	2048 × 1536
Number of images	14/19/33/55		7-113 (with 8MB CompactFlash)
Shutter speeds in seconds	1 to 1/800th	64 to 1/2000th	1/2 – 1/1000th
Aperture	f2.0, to f.11	f3.2, f4.8, f8	f2.0 to f8.0 (auto)
Colour recognition	16.7 million		
Contents	8MB CompactFlash Card batteries (4 × AA), rechargeable batteries	USB cable, serial cable batteries (4 × AA), rechargeable batteries 8MB Compact Memory Card, wireless remote control unit, video cable	USB cable; CD-ROM (with Photo Loader software); 8MB CompactFlash™ memory card; video cable; soft case; neck strap; lens cap
Dimensions (W × D × H)	130 × 74 × 61mm	143 × 71 × 77mm	134 × 80.5 × 57mm
Warranty	12 months off-site		12 months

FOR MEMORY CARDS, SEE PAGE 343

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Casio QV-3000EX	97-53-65	418.00	➧	429.95	425.65
Casio QV8000SX	81-41-76	418.00	➧	429.95	425.65
Casio QV2000DDA	45-98-06	388.00	➧	399.95	395.95
Casio Rapid Charger Kit & 4 × AA NiMH batteries	62-39-06	42.33	43.95	43.51	43.08
Casio 4 × Rechargeable NiMH batteries	62-39-13	12.38	12.95	12.82	12.69
AC Adaptor for QV70, QV700, QV2000 & QV8000	41-32-19	15.99	17.95	17.41	16.89

OTHER ITEMS
FOR OCR & IMAGE EDITING SOFTWARE SEE PAGES 837–855

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
»Save £££'s!
»Check live stock
»Track order status

DIGITAL CAMERAS

Canon



Canon is proud to announce the world's first 3 Megapixel compact digital camera. The incredible **PowerShot S20** is the highest specification compact class digital camera announted to date and offers a massive 2,048 × 1,536 pixel resolution coupled with a super lightweight (270gm) body, a retractable high quality 32-64mm (35mm film equivalent) zoom lens plus 4 × digital teleconverter and serial/USB interface.
The PowerShot S20 draws on Canon's camera making heritage, offering responsive handling to match conventional film cameras. Extreme simplicity of use, enhanced by extensive preset and user definable functions, make the PowerShot S20 a market leader for the new Millennium.
The **PowerShot A50** is packed with sophisticated features that enable you to get the best picture every time. A 2" LCD display enables simple reviewing or previewing of pictures, whilst the cameras 1,310,000 pixel CCD captures pictures at the optimal resolution.
The camera also comes complete with a host of essential accessories, allowing simple connection to a PC or MAC™. It can even be connected to a TV-or preview monitor. Also supplied with the PowerShot A50 are rechargeable batteries and an 8MB CompactFlash™ card.
NEW **PowerShot S10** is equipped with an optical 2x zoom lens of F2.8 (W) fo F4.0 (T) with a focal length of 35 to 70mm (in terms of 35-mm film), capable of shooting a wide range of images from scenery to snapshots. While using the LCD viewfinder, you can use the digital teleconverter function with a maximum rate of 4x. Combined use of the digital teleconverter and the optical 2x zoom lens provides a digital zoom factor of up to 8x (280mm in terms of 35-mm film).

The **PowerShot Pro 70** provides highly advanced image quality from technology in the lens, CCD and image processing. The PowerShot Pro 70 has a 6-15mm (28-70mm equivalent) power zoom lens with unique aspherical elements to ensure that images are accurately captured by the image sensor. A large CCD image sensor requires critical focusing, and Canon's new auto focusing system ensures that the best focus is always achieved. The CCD sensor has 1.68 million pixels to capture at the highest resolution.



Model	PowerShot Pro 70	PowerShot S10	PowerShot S20	PowerShot A50
Image resolution	1586 × 1024/786 × 512	1600 × 1200/800 × 600	2048 × 1536/640 × 480	1280 × 960/640 × 480
No. of Images	Up to 236 compressed	Up to 24 images	Up to 36 images	Up to 105 compressed
Shutter speed/sec	½-1/6000th	½-1/1000th	2-1/1000th	2-1/750th
Aperture	f/2.0-f16.0	f/2.8-f4.0	f/2.9-f4.0	f/2.6-f4.0
Interface	Serial (RS232), Video (NTSC)	Serial (RS232C, Video (PAL)	Serial (RS-232C), USB	Serial (RS232)
Contents	Camera, cables, rechargeable batteries			
Dimensions (W × D × H)	145 × 132 × 85mm	105 × 33.8 × 69mm	105.4 × 33.8 × 69.4mm	103 × 37 × 68mm
Weight	0.65kg	0.27kg		0.26kg
Warranty	12 months on-site			

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
✂	Canon PowerShot Pro 70	36-99-77	638.00	➧	655.95	649.39
	Canon PowerShot S10	40-17-61	413.00	➧	419.95	417.43
NEW	Canon PowerShot S20	42-17-59	564.00	➧	579.95	574.15
✂	Canon PowerShot A50	40-30-86	345.00	➧	354.95	351.40

OTHER ITEMS
FOR RANGE OF PCs, MACs & ACCESSORIES SEE PAGES 50–185
FOR DIGITAL CAMERA CARRY CASE SEE PAGE 101

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DIGITAL CAMERAS

SANYO



NEW! – The **digiCAM 380** from **Sanyo.** With Megapixel resolution, a 1.8" Colour TFT LCD display screen and removable SmartMedia storage cards. The digiCAM 380 has a digital zoom and can store 50 images in high resolution mode. You are guaranteed the best possible shot with the sequential shot mode. You can choose the best and delete the rest. The **digiCAM 360** has a resolution of 1024 × 768 and is PC or Mac compatible.



The **digiCAM 400** is the world's first digital camera to address the power drain problem. The LCD display can drain battery power amazingly quickly so Sanyo have developed a **Solar Power Solution**. The sunlight button switches the power source from the batteries to daylight and can even be used indoors. Features include Megapixel resolution, digital and optical zooms, Sunlight power save mode, 4 seconds of sound with each picture and a 2" Polysilicon TFT LCD display.



NEW! – The **digiCAM 550** can store up to 50 minutes of video and audio with the optional Microdrive storage card. Other features include up to 2.2 million pixel output, built-in speaker for audio playback, up to 21 × digital zoom in playback mode and a sequential shot feature. The unit comes with Agfa PhotoGenie software and all the necessary cables to download your pictures to your Desktop or Notebook.

Model	digiCAM 360	digiCAM 380	digiCAM 400	digiCAM 550
Image resolution	1024 × 768	1280 × 960		1360 × 1024
No. of images	8 superhigh 1, 18 superhigh 2 60 high resolution	8 superhigh 1, 18 superhigh 2 60 high resolution	9 superhigh 1, 18 superhigh 2 60 high resolution	Up to 120 images w/o sound Up to 77 images with sound
Shutter speed (secs)	¼-1/1000th		½-1/750th	¼-1/10000th
Aperture	f2.8, f5.6, f11			f2.4, f8
Interface	PC and MAC	PC only	PC and MAC	
Software	MGI PhotoSuite			MGI PhotoSuite, Agfa PhotoGenie
Contents	Camera, manual, software, cable, Mac adaptor (NOT 380), AV cable, 4 × AA batteries			
Dimensions (W × D × H)	117 × 40 × 60mm	138.5 × 43 × 65.5mm	109 × 40 × 70mm	110 × 40 × 63mm
Weight	0.2kg	0.25kg	0.3kg	0.22kg
Warranty	12 month return-to-base			

FOR MEMORY CARDS, SEE PAGE 343

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Sanyo digiCAM 360	31-35-42	249.00	▶	254.95	252.40
Sanyo digiCAM 380	40-49-47	249.00	▶	254.95	252.40
Sanyo digiCAM 400	64-07-76	369.00	▶	382.95	379.12
Sanyo digiCAM 550	53-00-78	419.00	▶	434.95	430.60
4MB Memory Card for 360, 380, 400	55-70-96	36.00	37.95	37.57	37.19
8MB Memory Card for 360, 380, 400	55-71-06	55.00	57.95	57.37	56.80
16MB Memory Card for 360, 380, 400	85-67-45	59.00	62.95	62.32	61.70
Microdrive Storage Card for 550	22-52-24	365.00	▶	379.95	376.15
Sanyo digiCAM Mains Lead (360)	90-52-58	41.00	42.95	42.52	42.10
Sanyo digiCAM Mains Lead (380/400)	39-61-13	41.00	42.95	42.52	42.10

OTHER ITEMS
FOR RANGE OF PCs, MACs & ACCESSORIES SEE PAGES 40–189
FOR OCR & IMAGE EDITING SOFTWARE SEE PAGES 837–855

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶Save £££'s!
▶▶Check live stock
▶▶Track order status

Lower prices on-line at action.com

DIGITAL CAMERAS

EPSON®



Epson PhotoPC 650. Offering megapixel (1152 × 864) resolution the Epson PhotoPC 650 can store up to 88 photos with its 8MB CompactFlash card. It features a 1.8" colour LCD monitor, has a built-in flash, autofocus lens and comes with USB and serial interfaces.

FOR MEMORY CARDS, SEE PAGE 343



The **Epson PhotoPC 800** features exposure compensation, spot metering, manual shutter speed, aperture settings, focus and white balance adjustment; panoramic and macro mode, quick take mode, continuous shot mode and self timer.

The **Epson PhotoPC 850Z** has been designed with professional photographers in mind. With quality output that rivals traditional 35mm silver halide this camera provides all the features of traditional photography combined with the advantages of digital output.

Model	Epson PhotoPC 650	Epson PhotoPC 800	Epson Photo 850z
Image resolution	1152 × 864	1984 × 1488	
No. of images	88 standard	11-13 superfine: 133 standard	
Shutter speed/sec.	¼th to 1/500th	½ to 1/750th	4 to 1/800th
Aperture	f2.0 to f11	f2.4/f8	f2.0-f11
Colour recognition	24 bit JPEG		
Interface	Video Out for Mac & PC	USB and serial interface for Mac and PC	USB/serial interface for PC and Mac, PAL, video out
Software	Epson Photo!Print, Epson Photo!3, Adobe PageMill		
Contents	Camera, Cables, 8MB compact FlashCard		
Dimensions (W × D × H)	134.5 × 72 × 55mm	113 × 36 × 67.5mm	125 × 80 × 70
Weight	0.31kg	0.24kg	0.35kg
Warranty	12 months replacement and repair		

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Epson PhotoPC 650	52-99-44	179.00	➧	182.95	181.85
Epson PhotoPC 800	35-20-20	418.00	➧	429.95	425.65
Epson PhotoPC 850z	12-10-75	485.00	➧	499.95	494.95

OTHER ITEMS

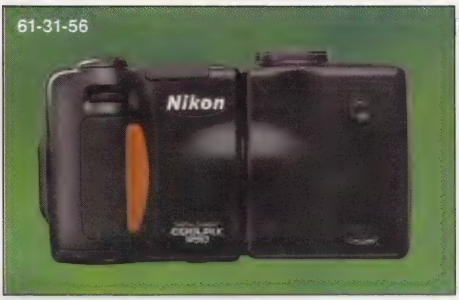
FOR OCR & IMAGING EDITING SOFTWARE SEE PAGES 837–855
FOR DIGITAL CAMERA CARRY CASE SEE PAGE 101

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DIGITAL CAMERAS

Nikon

61-31-56



81-15-28



The **Nikon COOLPIX 950** also features a 2.11 megapixel CCD and a unique 3x zoom Nikkor lens, high precision autofocus shutter/aperture priority control and a multiflash sync terminal.

Newly designed 3x Zoom-Nikkor lens

The 3x Zoom Nikkor lens' 7-21mm focal range (equivalent to 38-115mm in the 35mm (135) camera format) is distinguished by superior optical performance. All lens elements are multi-coated and made of environment-friendly glass. The glass-moulded aspherical lens element minimises lens aberrations in order to enhance picture quality. Digital zoom function provides 1.25x, 1.6x, 2x or 2.5x magnification.

Nikon tops its impressive COOLPIX digital camera line up off with the **COOLPIX 990**, a 3.34-megapixel powerhouse packed with even more features than its super high-quality predecessors. Incredible images are made possible by the new CCD, a newly designed 3x Zoom-Nikkor lens and advanced total digital image control. When you factor in accelerated and simplified operation along with increased versatility and operability, it's easy to see that the COOLPIX 990 from Nikon is one very cool camera.

Model	Nikon COOLPIX 950/950 Premium	Nikon COOLPIX 990/990 Premium
Image resolution	1600 × 1200 pixels	2048 × 1536 pixels
No. of images	Up to 32 on supplied 8MB Card (extra 16MB with 950 Premium) (extra 16MB and 32MB with 990 Premium)	
Shutter speed/sec.	8 to 1/750 sec.	8 to 1/1000 sec.
Aperture	Electromagnetically controlled	7-blade iris diaphragm; 10 steps in 1/3 EV increments
Interface	Serial, NTSC or PAL Video	
Software	NikonView (CD-ROM)	
Contents	Camera, Cables, 8/64MB (with Premium) FlashCard, Softcase, Mains adaptor (with Premium), LCD Screen Sun-shade (with 990 Premium)	
Dimensions (W × D × H)	143 × 36.5 × 76.5mm	149 × 38 × 79mm
Weight	350g	390g
Warranty	12 months	

FOR MEMORY CARDS SEE PAGE 343

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Nikon COOLPIX 950	40-94-75	544.00	◆	559.95	554.35	✂
Nikon COOLPIX 950 Premium	81-15-28	CHECK ONLINE	◆	◆	FREE Call	
Nikon COOLPIX 990	75-78-15	631.00	◆	649.00	642.51	NEW
Nikon COOLPIX 990 Premium	61-31-56	709.00	◆	729.00	721.71	NEW

OTHER ITEMS

FOR DIGITAL CAMERA CASE SEE PAGE 101

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

EYE-TREK OLYMPUS



The Big Screen by a Small Device

Eye-Trek opens up a whole new world of entertainment to you. Although only the size of a pair of sunglasses, Eye-Trek presents video and TV-films impressively large, as if you were watching a 52" screen from 2m distance.
Now you can see films, videos or concerts in cinema format. Accompanied by full-bodied stereo sound that you receive via the integrated headphones, you have the sensation of being part of the action. No matter where you may be at the time – lying on the sofa or sitting in the garden.
You can take Eye-Trek wherever you want and use it whenever you want – without disturbing others.
Eye-Trek is ultracompact, easy to wear and weighs only 85g. Just connect Eye-Trek to any TV, video equipment, DVD-player, camcorder or any other video source – and experience a new dimension of entertainment.

With a portable DVD-player you can watch your favourite movie wherever you happen to be. It has never been so convenient to enjoy your personal audio-video programme, even outdoors or on a train journey.

With the **Cordless Sender-Receiver System** you can experience a new form of freedom at home. Receive signals from TV, video etc. even through walls and adjust your appliances by remote control. You just have to plug the Eye-Trek cable into your video source and put on the multimedia glasses. Immediately you will be absorbed into the movie action. Your neighbours remain undisturbed. High image quality and realistic stereo sound can be fully enjoyed.
You will be able to enjoy your movie in a relaxed position, day and night, regardless of light conditions. The See-Around-Design assures that you never lose awareness of your surroundings.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Olympus Eye-Trek Multimedia Glasses FMD-200	38-29-82	489.95	◆	499.95	496.95
Olympus Eye-Trek Cordless Sender	36-99-97	181.95	◆	189.00	187.11
Olympus Battery Charger FMD 200	53-77-84	109.95	◆	114.95	113.80
Olympus Battery Pack	64-77-87	71.45	74.95	74.20	73.46
Olympus Carry Case for FMD-200	77-83-21	31.49	32.95	32.62	32.29

OTHER ITEMS
FOR OCR IMAGE EDITING SOFTWARE SEE PAGES 837–855

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DIGITAL INTERNET CAMERA

SHARP

Digital Video Camera for the Internet

Improve your creative vision

Sharp's new Internet Viewcam is the world's first digital motion picture and sound camera designed specifically for the Internet.

- Built-in 4x digital zoom for video recording, built-in microphone.
- 270-degree rotating camera lens.
- 1.8" LCD monitor.
- One hour of video onto a 32MB SmartMedia Card.

With it, you can capture all the sights and sounds around you and easily transfer them to your PC, allowing moving picture clips to be sent as an e-mail attachment or embedded into a web page.

The VN-EZ1H is the first digital camcorder to incorporate the MPEG-4 moving picture compression standard. This means your videos take up much less space on your PC and can be sent that much faster. Because the Internet Viewcam uses Microsoft's® Advanced Streaming Format (ASF), your recordings can be viewed and heard at virtually the same time they're being downloaded.

Moving pictures taken with the Sharp Internet Viewcam are stored on SmartMedia Memory Cards that can be easily transferred to your PC by just inserting the card into the included floppy disk adaptor or an optional PC card adaptor. Using a 32MB SmartMedia Card the VN-EZ1H can record up to 1 hour of moving pictures and sound.

The VN-EZ1H is powered by just four alkaline AA batteries and will record for over one hour. Also functioning as a digital still camera it can capture up to 576 still images.

The Sharp Internet Viewcam employs Microsoft's Advanced Streaming Format. Files transmitted using this format can be viewed using Windows Media Player Version 6.0 or higher.

PixLab Media Browser enables you to quickly and easily search through the video and still image files taken with the Viewcam. With the ASF Extractor, you can select the particular scenes you wish to show and then play back those video files on your PC using Windows Media Player.



Or if you wish to send either ASF or AVI files via the Internet, your video files can be condensed further using the Bit Rate Adaptor while the handy HTML Creator enables you to automatically create your own web pages and transmit them using ASF.

Supplied with the Sharp VN-EZ1H Internet Viewcam are four alkaline batteries that provide up to 1-hour of recording time. A 4MB SmartMedia Memory Card, a handstrap, soft case, and application software on a CD-ROM. Plus the floppy disk adaptor, which enables you to insert the SmartMedia Memory Cards directly into your IBM PC/AT compatibles for downloading your recordings on machines running Windows 98/95.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Sharp VN-EZ1H Internet Viewcam	40-30-89	388.95	↑	399.95	395.95

OTHER ITEMS FOR DIGITAL SENDERS SEE PAGE 344

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CAMERA ACCESSORIES



Targus Digital Camera Case
- Generic case for all digital cameras and accessories.
- Adjustable, foam padded dividers to create customised pockets.
- Also suitable for backup drives and external CD-ROM.
- Overall dimensions: 30.5 × 26.5 × 11.5cm.

ALL TARGUS CASES LIFETIME WARRANTY

KODAK Close-Up Lens Kit
Capture more detail by optically enlarging the image. The +7 and +10 Diopters in this set can be used individually or combined to give you a +17 lens. Think of the images you can get from about 2" away.

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	TARGUS/IOMEGA/HEWLETT PACKARD					
	Targus black Koskin Digital Camera Case	85-98-42	32.96	36.99	35.88	34.80
	Iomega Clik! PC Card Bundle PCMCIA Type II	70-70-21	179.95	◗	184.99	183.14
NEW	HP PhotoSmart P100 printer for Digital Cameras	62-17-75	206.95	◗	208.95	208.43
NEW	HP PhotoSmart P1100 printer for Digital Cameras	62-30-97	243.95	◗	245.95	245.34
	SONY					
	Sony soft carry case for Cybershot	38-36-80	28.00	29.95	29.65	29.35
	Sony soft carry case for Mavica Range	29-29-97	17.77	19.95	19.35	18.77
	Sony Lithium Battery 2.5 hours	22-52-37	28.50	29.95	29.65	29.35
	Sony Lithium Battery 5 hours	26-23-43	41.00	42.95	42.52	42.10
	KODAK					
	Kodak 4 Batteries & Charger for DC 215/240/280/290	25-90-02	42.95	44.95	44.50	44.06
	Kodak Camera bag for DC 215/240/280/290	26-04-17	19.00	19.95	19.75	19.55
	Kodak Premium pack for DC 215/240/280/290	64-31-61	89.95	94.95	94.00	93.06
	Kodak Universal AC Adaptor for DC 215/240/280/290	87-93-41	34.95	36.95	36.58	36.21
	Kodak 2 × TelePhoto Converter Lens	53-01-42	42.95	44.95	44.50	44.06
NEW	Kodak Close-Up Lens Kit Inc. +7/+10 Diopters	38-30-55	26.50	29.95	29.05	28.18
NEW	Kodak 37mm Lens Adaptor for DC240/DC280	22-52-79	22.22	24.95	24.20	23.48
NEW	Kodak 37mm Lens Adaptor for DC260/DC265/DC290	12-11-69	22.22	24.95	24.20	23.48
	OLYMPUS					
	Olympus Leather Carry Case for C860/C960	37-00-50	19.00	19.95	19.75	19.55
	Olympus Leather Carry Case for C – 2500L	75-64-79	26.50	27.95	27.67	27.39
	Olympus Flash Path Adaptor Accessory Kit	55-43-98	56.95	59.95	59.35	58.76
	Olympus AC Adaptor for C – 1400L, C – 820L, C – 420L	89-78-04	59.95	62.95	62.32	61.70
	Olympus Recharger pack + 4 Batteries (for for C21)	97-53-66	64.95	64.95	64.95	64.95

OTHER ITEMS
FOR DIGITAL SENDERS SEE PAGE 344

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DIGITAL CAMERA MEMORY

integral SAMSUNG ELECTRONICS



A standard in Digital Camera products.
integral, is a preferred brand of Digital Memory products, simply because it brings together the world's biggest Digital component manufacturers all under one name. This ensures that integral digital products are produced to the highest standards, which ensures you compatibility under the most demanding conditions.
It also allows the integral brand to supply everything you need to solve all your digital requirements, whether you have a digital camera, MP3 player, laptop, mobile phone or PDA. A Massive selection is sure to be able to provide for all your needs.
The current range includes Smart Media, Compact Flash, ATA Card and Multi Media Cards, PCMCIA Adaptors and Memory Card Readers.
integral, look to innovate products frequently, to stay ahead in this rapidly moving market. This combined with long relationships with the world's largest manufacturers, mean integral can give you the quality products you demand.

Integral CompactFlash and ATA Flash
Integral Digital memory is produced using the state-of-the-art materials and processes. Integral memory has been designed to be highly reliable and compatible in digital applications such as Digtal Cameras, MP3 players, PDA's and notebooks. If you demand digital memory that is compatible and reliable under repeated use then look no further than Integral memory. The Integral range includes readers and adapters.

Memory Card Readers
An Integral reader will connect directly to your PC to provide convenient ultra-fast access to your digital memory card. This allows you to take photographs and have then displayed on your PC in a matter of seconds. Whilst saving the battery life of your camera.

Adapters (PCMCIA)
Integral adaptors turn your SmartMedia or CompactFlash card in a PCMCIA (PC-Card) compatible device so that you can access your pictures directly from a Laptop or any PCMICA slot. Great for backing up files and transferring files between Laptops.

Samsung SmartMedia
Samsung are a World-Class Leader in memory technology. Samsung SmartMedia is renowned for the ultimate quality and reliability.

integral

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Integral CompactFlash 8MB	69-48-32	26.00	29.95	29.05	28.18
Integral CompactFlash 16MB	69-48-49	47.00	49.95	49.45	48.96
Integral CompactFlash 24MB	69-48-56	60.00	67.95	65.91	63.93
Integral ATA Flash 64MB	69-49-11	229.50	◗	249.95	242.45
Samsung SmartMedia 3.3v 4MB	69-49-66	15.00	16.95	16.44	15.95
Samsung SmartMedia 3.3v 8MB	69-49-73	19.50	21.95	21.29	20.65
Samsung SmartMedia 3.3v 16MB	64-19-19	32.00	35.95	34.87	33.83
CompactFlash PCMCIA Adaptor	69-48-63	9.75	10.95	10.62	10.30
SmartMedia PCMCIA Adaptor	69-49-80	28.00	31.95	30.99	30.06

OTHER ITEMS
FOR OCR & IMAGE EDITING SOFTWARE SEE PAGES 837–855
FOR MULTIMEDIA PRODUCTS SEE PAGES 325–329

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

E-COPIER





The **HP CapShare 920 e-copier** is a portable, hand-held device designed to help mobile professionals capture, store and share documents with others using their existing e-mail and e-fax tools. About the size of a portable CD player, it lets you electronically capture letters, contracts, reports, handwritten notes, maps, newspaper articles, and business cards. You can capture a page in six seconds and store up to fifty letter-size documents in black and white. These documents can be sent to a printer for an immediate hard copy, or to a notebook PC, desktop PC, HP handheld PC running Windows CE2.0, or smart wireless hand-held device (such as the Nokia Communicator), where they can be shared with anyone from anywhere.

How does the HP CapShare e-copier work?
The HP CapShare handheld e-copier is simply swept across a page in order to capture an accurate, seamless and undistorted image comparable in quality to a photocopy image. Large documents are captured by making a single sweeping motion to cover the entire page. Unlike conventional scanning technolgoy requiring a slow and deliberate single pass, HP's CapShare device accurately interprets all the captured documents perfectly with a handheld, free-form motion.

HP CapShare e-copier...copies:
Two special opto-electronic 'navigators' measure the movement and rotation of the device in the user's hand, store this data and then process it to recreate the original document. Both image and position of data are processed simultaneously during the image-capture process and the HP CapShare device automatically reassembles this electronic data to recreate the document page without any distortion – all of which only takes about 6 seconds.

HP CapShare e-copier... stores:
Once you've captured your document, the LCD display of the HP CapShare device allows you to verify the accuracy of your electronic copy using 2 levels of zoom. An auto-straighten (deskew) function and edge trimming facility allows fine tuning and cropping of selected images. Its built-in memory will let you store up to 50 A4 text pages, 150 flipcharts or 10-15 magazine pages of information to send when you are ready to do so.

HP CapShare e-copier... shares:
You can share captured information fast via e-mail or e-fax to a customer or business contact anywhere in the world. The fast infra-red (FIR) can send to a variety of portable and office-based equipment – all at the press of a button while the LCD monitor displays the sending progress. Office-based and portable printers, PCs, laptops, handheld PCs or smart wireless handheld devices can all communicate via HP's built-in JetSend enabled fast infra-red capability. It means time critical communication can be conducted fast and efficiently from anywhere.

NEW FEATURES FOR 920:
- PAGIS PRO2 and Textbridge OCR software included.
- 3 capturing modes: A4 text (50 pages), Graphics mode (10-15 pages), A1 (150 pages).
- Auto de-skew +/-4%.
- Compatible with Psion 5.
- Windows CE and more IrDA output devices.
- Settings for FAX and high quality.
- Built-in help manuals.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
HP CapShare 920 E-Copier Digital Sender	60-30-87	285.00	▶	294.95	292.00
HP CapShare 920 & Support Pack (3 yr extended warranty)	06-82-68	359.00	▶	369.95	366.25

OTHER ITEMS

FOR E-MAIL SOFTWARE SEE PAGES 892, 893, 894

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DIGITAL SENDER



The **HP 9100C Digital Sender** is an innovative new workgroup communication device that converts paper documents into digital information so they can be sent via e-mail. It can also send information to a network fax solution, HP JetSend-enabled device, network PC or network printer. You can send almost any paper-based information whenever and wherever you want. Brochures, contracts or advert images are compressed and converted to PDF (or TIFF) files that can be sent to several different people, in different places, at once.
It can be installed in about five minutes with no modifications to your IT infrastructure, all you do is
1. place your document in the automatic feeder,
2. type in or select a destination from an address list and
3. Press the green 'send' button. Your hardcopy documents are converted and compressed into small digital files, complete with high-quality black and white or full colour images and sent easily and quickly to anyone with an e-mail address.
HP Smart Compression technology shrinks complex colour documents for even faster transmission. The result is near-original quality with crisp, clean text and clear black and white or full colour images. Whether you're sending text or photos, you'll get high quality files that have a minimal impact on valuable network bandwidth.



The **HP Digital Sender 8100C** provides users with the easiest way to send high quality colour or black and white documents via e-mail. The HP 8100C is HP's low-cost offering, targeted to Office Managers and MIS Managers in medium to large businesses. HP is giving a reasonable alternative to traditional mail, fax or courier services. The HP Digital Sender 8100C gives you the ability to easily incorporate paper documents into your digital work environment. Simply place pages onto the automatic document feeder, type in addresses or retrieve them from a built-in distribution list and hit the 'send' button. The document is sent simultaneously to everyone you've selected. The digital sender even compresses files with HP Smart Compression technology to speed file transfer. Installation of the device couldn't be easier. Simply plug in the HP Digital Sender to your network and your entire workgroup can begin using it. You won't find an easier way to send quality documents to anyone's e-mail.

FEATURES:

- Stores 200,000 e-mail address locally.
- Up to 1024 destinations for an e-mail message.
- LDAP link to e-mail for dynamic address searches.
- Address input control panel.
- Up to 64 printers per Digital Sender.

UPGRADE YOUR WARRANTY
SEE PAGES 424-425
HP SUPPORTPACK

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
HP 8100C Digital Sender	53-00-69	874.00	➧	899.00	890.01	
HP 9100C Digital Sender	64-28-39	1725.00	➧	➧	1745.00	✂
HP 9100C Digital Sender – 10/100 Ethernet	26-22-88	1859.00	➧	➧	1879.00	✂
HP Support Pack for HP 9100C	29-60-58	365.00	➧	399.95	387.95	

OTHER ITEMS
FOR E-MAIL SOFTWARE SEE PAGES 892–894, 909

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

FILM SCANNERS

Nikon Canon



The **Coolscan III** from **Nikon** takes in 10-bit, tone rich data for each colour channel. Its wide dynamic range provides 16.7 million colours enabling faithful reproduction of the original image. A high-resolution full colour image of 2,700dpi can be sanned in only 20 seconds. The Coolscan III automatically adjusts the focus by compensating for the thickness of slide mounts and any curling of the film. Nikon's CleanImage accurately detects dust, scratches and fingerprints and automatically eliminates these providing defect-free images.



The **CanoScan FS2710** delivers exceptional quality scans of 35mm or Advanced Photo System (APS) films. With easy operation and detailed colour adjustment facilities it's the ideal solution for professionals and photo-enthusiasts alike. A semi-transparent dust cover to ensure a clean scanning environment is provided.
The high quality scanning ability of the CanoScan FS2710 comes from its combination of high-resolution 2720dpi CCD sensor, 36-bit colour depth and the 3.2D optical density range enabling the FS2710 to extract the smallest details and broadest range of tones from your original film images.

Model	Nikon Coolscan III	Canon CanoScan FS2170
Interface	SCSI	
Document size	35mm:24.2×36.3mm	35mm
Resolution	2,592 pixel CCD, 2,700dpi	2720dpi
Dimensions (W×D×H)	86×142×275mm	85×147×321mm
Weight	2.4kg	2.2kg
Warranty	12 months limited	12 months return-to-base

For further warranty and technical data please visit www.klt.co.jp/nikon www.canon.com

DESCRIPTION	INTERFACE	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Nikon Coolscan III	SCSI	12-08-66	455.00	➧	469.95	465.25
Canon CanoScan FS2710	SCSI	60-17-18	408.50	➧	419.95	415.75

OTHER ITEMS
FOR OCR & IMAGING EDITING SOFTWARE SEE PAGES 837–855

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

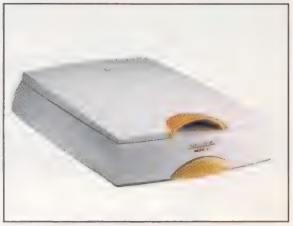
FLATBED SCANNERS

AGFA



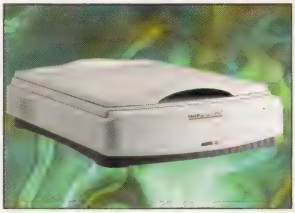
Agfa's SnapScan 1212p flatbed colour scanner combines high-performance image capture, convenient plug-and-play operation and intelligent software in a sleek design. The advanced Parallel Port interface includes the unique OptiSpeed module allowing the 1212p to operate at 'SCSI' speeds. The software package includes: Agfa FotoSnap, Agfa FotoLook, iPhoto Express, Caere's OmniPage LE and Visioneer PaperPort document management software.

The **SnapScan 1212u** adds a USB interface to its award-winning scanning technology. Not only is USB inherently faster but it also automatically self configures which radically simplifies the process of expanding a PC system. The software package is the same as above. The 1212u is available in white, translucent green and Blue.



SnapScan e50 economically priced 1200 × 2400dpi, 42-bit colour for ultra sharp and colourful images, integrated TPO for 35mm negatives and transparencies for highest diversity in scanning, four programmable buttons for seamless integration of images into the consumers preferred destination, USB interface for fast a hassle free data transfer, 3 interchangeable handles and button cap colours: translucent tangerine, translucent blueberry and translucent graphite, award winning ScanWise scanner driver with bundled software for both PC and Mac, Image editing: Corel PrintHouse Office and Read Iris full version 4.17 for OCR, Fully Windows 2000 Compatible, AND ScanWise features: 'AgfaNet' on print service, for easy real quality duplicates.

SnapScan e40 low cost 1200 × 2400dpi, 42-bit colour for ultra sharp and colourful images, USB interface for fast a hassle free data transfer, 3 interchangeable handle colours: translucent tangerine, translucent blueberry and translucent graphite, award winning ScanWise scanner driver with bundled software for both PC and Mac: Image editing: Corel PrintHouse Office and Read Iris full version 4.17 for OCR, Fully Windows 2000 Compatible, AND ScanWise features: 'AgfaNet' on print service, for easy real quality duplicates.



Agfa's revolutionary **SnapScan Touch USB** scanner is operated by four super-intelligent buttons. Just one touch automatically scans the images and text directly into your favourite programmes. Press individual buttons to attach your scan to an e-mail, send it directly to your printer, or convert it to editable text! Its 68-billion-colour sensitivity and 600 × 1200dpi sharpness leave no doubts about top quality.

Model	SnapScan 1212p	SnapScan 1212u	SnapScan e40/e50	SnapScan Touch
Bit depth	30-bit	36-bit	42-bit	36-bit
Type	A4 Colour Flatbed Scanner			
Optical resolution	600 × 1200dpi		1200 × 2400dpi	600 × 1200dpi
Interface	Parallel	USB		
Software	See text			
Warranty	12 months off-site			

For further warranty and technical data please visit www.agfahome.com

DESCRIPTION	INTERFACE	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Agfa SnapScan 1212p	Parallel Port	64-13-59	64.00	65.95	65.55	65.16	
Agfa SnapScan 1212u	USB	62-39-99	75.00	77.95	77.17	76.40	
Agfa SnapScan Touch	USB	90-52-52	85.00	89.95	89.05	88.16	
Agfa SnapScan e40	USB	90-53-03	CHECK ONLINE	◗	◗	FREE Call	NEW
Agfa SnapScan e50	USB	39-61-53	165.00	◗	167.95	166.94	NEW

OTHER ITEMS

FOR OCR & IMAGE CUTTING SOFTWARE SEE PAGES 837–855

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

COLOUR FLATBED SCANNERS



UPGRADE YOUR WARRANTY
SEE PAGES 424-425
HP SUPPORTPACK

HP ScanJet 3300C Colour Scanner makes installation and scanning easy. Just plug the cable into the USB port (USB) and follow the step-by-step instructions. Then scan or copy at the touch of a button. Everything you need for image scanning, text recognition and copying is right there in the box.

- Includes HP ScanJet Copy Utility and Adobe® PhotoDeluxe™ Home Edition image editing software.
- Includes HP PrecisionScan LT with integrated OCR software for automatic conversion of scanned text into editable files.

The **HP ScanJet 4200C** offers advanced performance for the home and office. Capable of tackling any scanning project and producing photo-quality results. Powerful software (including: HP PrecisionScan LT, Adobe PhotoDeluxe 3.0, G&A Imaging PhotoRecall and HP ScanJet Copy Utility) and three quick-start buttons make scanning, coying and e-mailing fast and easy. The USB interface makes installation easy and offers hot-plug connectivity.

Finally, there's a high-resolution scanner that's as easy to use as a printer. The **HP ScanJet 5300C** colour scanner scans at optical resolutions up to 1200dpi – 9600 enhanced – and has all the utilities you need to create professional-looking documents easily.

- Easy set-up via parallel or USB port.
- 4 button, scan, copy e-mail and fax.
- 36-bit colour.
- Optional document feeder and optional transparency adaptor.
- Adobe PhotoDeluxe, HP PrecisionScan 3.0, HP ScanJet Copy Utility, Integrated OCR.

Model	ScanJet 3300C	ScanJet 4200C	ScanJet 5300C
Bit depth	36-bit	30-bit	36-bit
Scanner type	Colour flatbed		
Optical resolution	600 × 1200dpi	600dpi	1200dpi
Interfaces	USB*		Parallel & USB*
Contents	Scanner, cable, power supply, software		
Dimensions: (W × D × H)	260 × 454 × 93mm	260 × 454 × 93mm	TBA
Weight:	3.5kg	2.8kg	TBA
Warranty:	12 months warranty exchange		

*NT 4.0 does not support USB.

For new models and latest prices please visit www.action.com

	DESCRIPTION	INTERFACE	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
✂	HP ScanJet 3300C	USB	60-17-57	63.00	64.95	64.56	64.17
	HP ScanJet 4200C	USB	61-31-48	78.00	79.95	79.47	78.99
✂	HP ScanJet 5300C	Parallel or USB	75-64-77	140.00	◗	144.95	144.08
NEW	HP ScanJet 4200C & SupportPack (3 year on-site)	—	06-64-69	145.87	◗	149.95	148.45
	HP Warranty Upgrade	—	29-17-27	77.42	81.00	80.19	79.39

OTHER ITEMS
FOR OCR & IMAGE EDITING SOFTWARE
SEE PAGES 837–855

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

COLOUR FLATBED SCANNERS

The **HP ScanJet 6300C/6350C/6390C** professional series colour scanners increase productivity, helping you work up to four times faster than with other scanners in its class. This new range of colour scanners eliminate intermediate steps. Just use the 5 front-panel buttons for copy, e-mail, fax, file and scan. Optical resolution at up to 1200dpi gives you perfect results every time.

Just press the button

- Scan, copy, e-mail, fax or file documents at the push of a button.
- Up to four times faster than comparably priced scanners.

Professional quality at lightning speed

- Scan photos in as little as 9 seconds.
- Copy up to five pages per minute with automatic document feeder (standard for 6350C/6390C).
- Unlimited enhanced resolution for quality image capturing through intelligent software interpolation.

HP Intelligent Scanning Technology for superior results every time

- Exclusive to HP! Scan photos, logos, line art and text separately at optimal settings – in one pass.
- Convert line art into infinitely scalable vector files for scaling without loss of quality.
- Creative impressive documents for the Internet without file format or file size worries. File formats include RTF, HTML and PDF.
- Preserve page format and edit elements independently.

Unlimited possibilities

- Adobe PhotoShop and professional OCR software included (6390C only).
- HP PrecisionScan LAN lets you network your scanner to share with colleagues.



- Advanced imaging controls for the experienced user.
- Includes Adobe PageMill Web page creation software.
- Active Transparency Adaptor 12.7 × 12.7cm included with HP ScanJet 6390C.

HP ScanJet 6300C

The versatile consultant for high-speed scanning and no compromises in image quality.

HP ScanJet 6350C

The professional consultant for fast, and unattended quality scanning of multipage documents. Up to five pages per minute scanning of multipage documents with included automatic document feeder.

HP ScanJet 6390C

The powerful consultant for fast, high-quality scanning with sophisticated image enhancement tools. Scan transparent media with included transparency adaptor. The included automatic document feeder guarantees fast speed scanning of multipage documents up to five pages per minute.

Model	ScanJet 6300C	ScanJet 6350C	ScanJet 6390C
Scanner type	Colour flatbed		
Max document size (mm)	216 × 356		
Optical resolution	1200dpi		
Bit depth	36-bit colour		
Software	HP PrecisionScan Pro, Caere PageKeeper, Adobe PhotoDeluxe & PageMill		
Contents	Scanner, software, cables		
Dimensions (W × D × H)	312 × 498 × 193mm		
Weight	7.2kg		
Warranty	12 months limited		

UPGRADE YOUR WARRANTY SEE PAGES 424-425 HP SUPPORTPACK

DESCRIPTION	INTERFACE	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
HP ScanJet 6300C Colour Scanner	USB/SCSI	60-30-86	219.95	➧	223.95	222.61	
HP ScanJet 6350C Colour Scanner	USB/SCSI	60-53-44	273.00	➧	277.95	276.28	✂
HP ScanJet 6390C Colour Scanner	USB/SCSI	60-94-76	487.95	➧	495.95	492.97	
HP ScanJet Auto Document Feeder (25 page capacity)	—	30-53-61	114.00	➧	115.95	115.25	NEW

OTHER ITEMS

FOR OCR & IMAGE EDITING SOFTWARE PAGES SEE PAGES 837–855

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

COLOUR FLATBED SCANNERS

EPSON®





The **Perfection 610** is designed to make the whole scanning process quick and easy, right from installation through to high quality results which can be easily printed, e-mailed, edited, used in projects or simply stored for later.

The **EPSON Perfection 1200U** has an optional film adaptor and automatic document feeder add to the Perfection 1200U's versatility. The EPSON Perfection 1200U is the perfect companion for Windows 96 PCs, Apple iMac computers and G3 Macs.

The **EPSON Perfection 1200S** has a high speed Adaptec AVA-2903B PCI SCSI card that provides blistering performance and is suitable for Windows and new G3 Macintosh computers.

The **EPSON Perfection 1200Photo** produces amazing high quality scans from prints and from negatives and slides with the included film adaptor. It is easy to set up with a plug and play USB port and very easy to use.

For further warranty and technical data please visit www.epson.co.uk

Model	610	1200U	1200S	1200Photo
Bit-depth	36-bit			
Type	A4 Colour Flatbed Scanner			
Optical Resolution	600 × 2400dpi		1200 × 2400dpi	
Interface	USB		Two SCSI2	USB
Software	Adobe PhotDeluxe Newsoft Presto! PageManager EPSON Personal Copy			
Contents	Scanner, CD-ROM, manual			
Dimensions (W × D × H)	287 × 425 × 88mm	287 × 427 × 90mm	287 × 427 × 90mm	287 × 427 × 124mm
Weight	4.5kg			5.2kg
Warranty	12 months Epson replacement or repair			

DESCRIPTION	INTERFACE	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Perfection 610	USB	12-10-54	89.50	93.95	93.01	92.08
Perfection 1200U	USB	38-29-47	134.00	▶	136.95	136.13
Perfection 1200S	SCSI	53-77-58	164.00	▶	169.95	168.93
Perfection 1200 Photo	USB	64-77-59	180.00	▶	185.95	184.83

OTHER ITEMS
FOR OCR & IMAGE EDITING SOFTWARE SEE PAGES 837–855

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶Save £££'s!
▶▶Check live stock
▶▶Track order status

COLOUR FLATBED SCANNERS

EPSON®



The **Expression 1600** scanner has been designed to offer the ultimate in professional scanning power – from true 1600 × 3200dpi optical resolution to the unique dual focus system that assures pin point accuracy when scanning both reflective and transparent media. Four key advanced EPSON scanning technologies are utilised by the **Expression 1600 to ensure the finest image quality:**

- Micro Step drive for high resolution.
- Dynamic Range Control to get the most out of transparency scanning.
- Simultaneous RGB scanning ensuring that all colour information is gathered.
- Precision Optical Lenses providing superior full edge to edge sharpness and clarity.



The **EPSON GT-12000** is a high definition A3 flatbed scanner designed for professional graphics proofing, CAD manipulation and document archiving. The GT-12000 offers superb performance, scanning at a rapid 7.5msec/line — 30 seconds for a 300dpi A4 graphic image. It offers this performance up to A3 size making it particularly suitable for specialised large-format images such as graphics, CAD/CAM designs, tabloid newspapers, double page spreads and even X-Rays.

The **GT-10000** is a high speed, 600 × 2400dpi, A3 colour scanner which provides excellent quality scans in both colour and black and white. The speed of the GT-10000 makes it ideal for high throughput archiving/OCR jobs and the 36 bit scanning also ensures accurate colour and detailed greyscales images are produced for use in projects or in-house publications. EPSON's Advanced Scanning Technology is incorporated into the GT-10000 to ensure that it is the fastest, highest quality and most powerful scanner in its class.

Model	Expression 1600	GT-10000	GT-12000PC
Bit depth	36-bit		
Type	A4 colour flatbed	A3 colour flatbed	
Resolution	1600 × 3200dpi	600 × 2400dpi	800 × 1600dpi
Interface	SCSI		Bi-directional parallel port/SCSI*
Software	Batch Scanning, Negative Scanning (Transparency/Film Adaptor required), Auto locate, Auto exposure, Windows ICM, Windows sRGB, Macintosh ColorSync, Focus adjustment (dual position), Multiple Marquees	Xerox TextBridge Pro 98, Adobe PhotoDeluxe Business Ed. Presto! Pagemanager, EPSON TWAN Pro and TWAIN Pro Network	Presto PageManager, Twain Pro Driver
Contents	Scanner, driver, cable	Scanner, SCSI Card + Cable	Scanner, driver, CD-ROM, manual
Dimensions (W × D × H)	332 × 562 × 133mm	656 × 458 × 176mm	458 × 656 × 170mm
Weight	8.5kg	21kg	20kg
Warranty	12 months repair or replacement		

DESCRIPTION		INTERFACE	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Expression 1600 Flatbed Scanner		SCSI	53-77-99	485.00	➧	499.00	494.01	NEW
GT-10000 A3 Network Scanner		SCSI	60-38-95	688.00	➧	699.95	695.75	
GT-12000 PC Scanner		SCSI/Parallel	89-74-71	1300.00	➧	➧	1319.00	

OTHER ITEMS

FOR OCR & IMAGE EDITING SOFTWARE SEE PAGES 837–855

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

LCD PROJECTOR GUIDE

The following section offers a range of high quality LCD multimedia projectors, but Action recognise that making the perfect choice of projector is not always easy so we have compiled a list of key factors that could influence your choice. If however, you are still not sure call Action and we will endeavour to assist you in your decision or arrange a demonstration (on most models) of the projector you feel most suits your requirements.







Key Factors in Considering Your Choice of Projector:

Resolution
The number of pixels of information that make up an image. The more pixels the higher the resolution and the better the image quality. LCD devices have a single fixed 'true' resolution but may accommodate other resolutions using in-built compression or expansion technology. Established standards are:

VGA 640 × 480 pixels
SVGA 800 × 600 pixels (Windows 95 compatible)
XGA 1024 × 768 pixels and above
SXGA 1280 × 1024 pixels

To determine which resolution projector you should hire/buy check the current resolution of your notebook/PC graphic card. The projector's resolution should not be higher in resolution than the graphics card.

Brightness
Normally indicated in ANSI lumens (American National Standards Institute measurement of 'candle power'). Higher lumens projectors can be used in rooms with the lights on if the presenter prefers.

Video Compatability
The three main video compatibility formats found in the range of projectors offered in this section:
NTSC – the 525-line American colour TV format as specified by the National Television Systems Committee.
PAL – the Phase Alternate by line colour TV format used in the UK and most of Europe, where each frame has 625 lines comprised of two interlaced fields.
SECAM – the 625 line (Sequential Couleur Avec Memoire) colour TV format used in France.

Action's range of LCD projectors include: 3M, Epson, CTX, INFOCUS, Philips, Sanyo, Sharp and Sony.

OTHER ITEMS

FOR RANGE OF PC'S, MACs & ACCESSORIES SEE PAGES 50–185
FOR PROJECTION SCREENS SEE PAGE 370

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
>> Save £££'s!
>> Check live stock
>> Track order status

LCD PROJECTORS

PHILIPS



The compact **SV20 Impact** is an all-round performer designed to meet the needs of most presenters. This is an elegant meeting room solution for business to replace standard analogue tools.

For further warranty and technical data please visit www.pcstuff.philips.com

The **XG20 Impact** from Philips, boasts a high 1300 ANSI Lumens and up to 1280 × 1024 resolution. This bright high-end Multimedia Projector is ideal for those who demand the best. The high performance that delivers pin-point XGA resolution for high definition applications where impact is needed and lighting conditions are less controllable.

The **SV20** is designed to meet the needs of senior executives, meeting facilitators. Single data and twin video inputs allow full multimedia presentations without having to reconnect other equipment midway through the presentation.

The **Hopper XG10** projector delivers 700 ANSI Lumens for bright, detailed, crystal-clear images, even under daylight conditions, and silence at less than 32dbs noise.

The **XG20** features a maximum resolution of up to 1280 × 1024 and brightness of 1000 ANSI. Easy to use intuative graphic user interface enables quick and simple set up. Full PC control via ergonomic infra red trackball remote control unit-Forward and Reverse mouse keys control Powerpoint presentations effortlessly.

Model	SV20 Impact	XG20 Impact	SV20	XG10	XG20
LCD Panel	Polysilicon LCD				
Max. Resolution	1280 × 1024	1024 × 768	1280 × 1024	1024 × 768	
Brightness	1300 ANSI		900 ANSI	700 ANSI	1000 ANSI
Video Compatibility	NTSC, PAL, SECAM				
Dimensions (W × D × H)	254 × 315 × 109mm				
Weight	4.9kg			5kg	4.9kg
Warranty	12 months return-to-base parts and labour				

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Philips Hopper SV20 Impact	64-78-58	2430.00	➧	➧	2449.00	NEW
Philips Hopper XG20 Impact	77-83-61	CHECK ONLINE	➧	➧	FREE Call	NEW
Philips Hopper SV20	12-10-98	2182.00	➧	➧	2199.00	
Philips Hopper XG10	52-99-22	2282.00	➧	➧	2299.00	✂
Philips Hopper XG20 Impact	77-83-61	CHECK ONLINE	➧	➧	FREE Call	NEW
Philips PXG10 Gemini	31-35-93	5599.00	➧	➧	5599.00	NEW

OTHER ITEMS

FOR OFFICE EQUIPMENT SEE PAGES 459–533

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

LCD PROJECTORS

EPSON®





The **EMP-500** is a 'next generation' ultra portable projector. True SVGA resolution is combined with high brightness and excellent image quality in a new ultra-compact design.
The **EMP-700** is a lightweight, high bright compact projector targeted at the mobile presenter requiring maximum portability, without sacrificing advanced features and brightness, for a versatile, professional presentation.
Incorporating many features only previously available on high end projectors, the **EMP-710** combines new miniaturised technology in an ultra small unit. New miniaturised optics, circuit board and a newly developed small size 120W UHP lamp enables the EMP-710 to produce an amazing high bright 1000 ANSI lumens. The newly developed retractable lens retains the compact size but also the lens to be protected during transportation.

Model	EMP-500	EMP-700	EMP-710
Compatibility	PC/Apple Mac		
LCD panel	Polysilicon LCD		
Max. resolution	SVGA	XGA	
Colours	16.7 million		
Brightness/1500 ANSI lumens	800 ANSI lumens		1000 ANSI lumens
Contrast ratio	400:1	350:1	400:1
Video compatibility	NTSC, PAL, SECAM		
Package contents	Projector, manual, cables		
Dimensions (W × D × H)	267 × 213 × 72mm		
Weight	2.6kg		
Warranty	24 months return to manufacturer		

www.maverick.co.uk

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Epson EMP-500 Projector	53-00-05	2199.95	➧	➧	2206.00
Epson EMP-700 Projector	50-17-64	3259.00	➧	➧	3275.00
Epson EMP-710 Projector	38-29-77	3679.00	➧	➧	3699.00

OTHER ITEMS FOR OFFICE PRODUCTS SEE PAGES 459–533

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

LCD PROJECTORS EPSON®





The **Epson EMP-5350** is an ultra bright (1500 ANSI lumens), high quality, true SVGA projector with Advanced Connectivity for easy installation and mobility. Advanced Image Realtime Resizing chip (AIrR™) increases resolution to XGA and SXGA. With a weight of only 6.2kg and a compact A4 footprint it's ideal for transporting between meetings.
The **EMP-7250** is able to display high quality VGA, SVGA, SXGA and UXGA images, making it ideal for engineering workstation applications.
The **EMP-7350** produces an amazing high bright 1600 ANSI lumens. The EMP-7350 is ideal for presenters who require portability and versatile, professional presentations but without sacrificing advanced features and brightness.
The **EMP-8000** is a lightweight projector suitable for both permanent installation market and demanding portable users. The EMP-8000 is equally at home whether it is being used as portable projector in classrooms or conference rooms or as a high-end installed projector in boardrooms or auditoriums.

Model	EMP-5350	EMP-7250	EMP-7350	EMP-8000
Compatibility	PC/Apple Mac			
LCD panel	Polysilicon TFT			
Max. resolution	True SVGA 800×600 (XGA 1024×768 compressed)	XGA 1024×768		
Colours	16.7 million			
Brightness/ANSI	1500 ANSI	1300 ANSI	1600 ANSI	2200 ANSI
Contrast ratio	250:1	200:1	TBA	
Video compatibility	NTSC, PAL, SECAM			
Package contents	Projector, manual, cables	Projector, cable, manual, remote		
Dimensions (W×D×H)	300×360×120mm		300×360×120mm	303×389×147mm
Weight	6.2kg		8.3kg	
Warranty	12 months return-to-base			

www.maverick.co.uk

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Epson EMP-5350 Projector	45-98-07	3059.00	➧	➧	3079.00
Epson EMP-7250 Projector	35-20-21	3975.00	➧	➧	3995.00
Epson EMP-7350 Projector	39-61-14	4879.00	➧	➧	4895.00
Epson EMP-8000 Projector	57-39-15	5895.00	➧	➧	5895.00

OTHER ITEMS
FOR OFFICE PRODUCTS SEE PAGES 459–533
FOR STATIONERY SEE PAGES 1017–1036

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MULTIMEDIA PROJECTORS

3M



MP7760 & PALM III OFFER SEE PAGE 246



MP8635 Power-packed, ultra-light protection
Capture your audience – at home or on the road – with outstanding performance, full-motion video and remarkable clarity. Weighing just 4.4kg and featuring true SVGA (800 × 600) resolution and 800 ANSI lumens and brightness, the 3M Multimedia Projector MP8635 packs a big presentation punch.
The **3M MP8610** is the affordable projector that gets the job done in classrooms or meeting rooms. This multimedia projector provides 500 ANSI lumens of brightness, true SVGA (800 × 600) resolution and rich sound from two built-in 10-watt speakers.
The **MP8670** projects 1,700 ANSI lumens, making it one of the brightest projectors in its category. The MP8670, with SVGA resolution, also offers a comprehensive feature set specifically designed to help presenters communicate to large audiences.

The **3M MP7630** is super light at only 5 pounds (2.3kg) and projects 700 (peak) ANSI lumens of brightness. Designed with Digital Light Processing™ (DLP™), a Texas Instrumens technology, and SVGA (800 × 600) resolution, the 3M MP7630 delivers outstanding images for winning presentations. Weighing just 2.9kg, the **3M MP7760** is a must for the travelling presenter. With its modern, slimline design, attractive charcoal metallic finish, and 1200 ANSI Lumens of brightness, it is the Ultimate Personal Projector. Packed full of superb features such as Carl Zeiss optics, new generation NTP lamp technology, plus 'Optimise' and 'Colour Manager' features.

Model	MP7630	MP7760	MP8610	MP8635	MP8670
Compatibility	PC & MAC				
LCD panel	Active Matrix TFT				
Max. resolution	800 × 600	1024 × 768	800 × 600		
Brightness	800 ANSI	1200 ANSI	500 ANSI	800 ANSI	1700 ANSI
Video compatibility	NTSC, PAL, SECAM				
Dimensions (W × D × H)	198 × 245 × 62mm	260 × 215 × 82mm	280 × 440 × 173mm	239 × 337 × 125mm	345 × 292 × 119mm
Weight	2.34kg	2.9kg	6kg	4.4kg	5.9kg
Warranty	2 year limited parts and labour				

For further warranty and technical data please visit www.mmm.com

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	3M MP7630 LCD Projector	22-52-83	2159.00	➧	➧	2175.00
NEW	3M MP7760 LCD Projector	64-19-54	3580.00	➧	➧	3599.00
	3M MP8610 LCD Projector	55-74-50	1596.00	➧	➧	1625.00
✂	3M MP8635 LCD Projector	39-61-06	2329.00	➧	➧	2345.00
	3M MP8670 LCD Projector	90-52-49	3129.00	➧	➧	3145.00
	3M Premium Extended Warranty 2 years 2 day response	64-09-72	482.69	➧	499.95	494.95
	3M Premium Plus Extended Warranty 2 years 4 hour response	25-88-21	505.79	➧	519.95	514.75

OTHER ITEMS FOR OHPs SEE PAGE 370

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LCD PROJECTORS

3M

The **MP8725** is the ultimate projector from 3M that delivers sharp, defined 1024 × 768 XGA resolution at 700 ANSI lumens. This feature rich projector includes the powerful image optimising Genesis Scaling™ Technology. It is also ultra-portable, weighing only 4.2kg.

The **MP8745** is one of the brightest projectors of its kind with a brilliant 1,400 ANSI lumen optical system, XGA resolution and USB connectivity meaning the MP8745 easily connects to the newest digital cameras and other peripherals.

Delivering 1800 lumens of brightness and true XGA (1024 × 768) resolution, the versatile 3M Multimedia Projector **MP8760** packs all the functionality of a full-featured multimedia projector into a compact unit. Intelligent image scaling technology optimises image quality for XGA resolution and video. An advanced optical system centered around TFT LCD technology brings your presentation to life in vivid rich colour, while built-in stereo speakers provide excellent audio quality. The MP8760 is backed by 3M with 24 hours a day, 7 days a week toll free support. At outstanding value, the MP8760 is ideal for mobile professionals who depend on quality and performance, everytime.

The **MP8780** delivers an incredible 2300 ANSI Lumens at full XGA resolution – bright and bold enough for larger venues where a big impact is needed.



77-93-46



86-86-93

Model	MP8725	MP8745	MP8760	MP8780
Compatibility	PC & MAC			
Max. Resolution	1024 × 768	XGA		
Brightness	700 ANSI	1400L	1500L	2300L
Video compatibility	NTSC, PAL, SECAM			
Contents	VGA cable, MAC adaptor, RCA, S-VHS cable, dual RCA audio cable, serial, ADB and PS/2 mouse cables, remote control with batteries, power cord, stereo mini jack, guide			
Dimensions (W × D × H)	—	345 × 292 × 119mm	331 × 272 × 140mm	—
Weight	4.2kg	5.9kg	7.2kg	15kg
Warranty	2 year limited parts and labour			

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
3M MP8725 LCD Projector	75-64-66	2945.00	◗	◗	2969.00	✂
3M MP8745 LCD Projector	77-93-46	3875.00	◗	◗	3895.00	
3M MP8760 LCD Projector	27-37-00	4682.00	◗	◗	4695.00	NEW
3M MP8780 LCD Projector	86-86-93	6145.00	◗	◗	6145.00	

OTHER ITEMS

FOR PROFESSIONAL SCREENS SEE PAGE 370

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LCD PROJECTORS

SANYO





The new **PLC-SU7** is a budget version of the new PLC-SU10. Whilst not having a PCMCIA slot, it does have an improved 700 ANSI lumens brightness and still weighs in at 3.9kg. An incredible SVGA projector at a real budget price.

The **NEW PLC-SU20** is a fully featured ultramobile SVGA LCD projectors. Packed with innovative features, they have 1250/XGA resolutions, built-in amplifier and speakers and incorporates Plug & Play compatibility. Includes digital zoom and 2 computer inputs.

The **NEW PLC-SU22** is a fully featured ultramobile SVGA LCD Projector. It has an amazing 1200 ANSI lumen brightness and features intelligent compression of XGA. Weighing in at only 3.9kg the PLC-SU22 features digital zoom and focus, has a robust magnesium alloy case, and a built-in PCMCIA slot.

Model	Sanyo PLC-SU7	Sanyo PLC-SU20	Sanyo PLC-SU20/SU22
LCD Panel	Poly-silicon TFT		
Max. resolution	800 × 600 SVGA		
Colours	16.7 million		
Brightness ANSI	700 ANSI lumens	1000 ANSI lumens	1200 ANSI lumens
Video compatibility	PAL, NTSC, SECAM		
Dimensions (W × D × H)	215 × 315 × 109mm	238.9 × 323.3 × 102.5mm	
Weight	3.9kg		
Warranty	2 Year Loan Swap-out		

FOR PROFESSIONAL SCREENS SEE PAGE 370

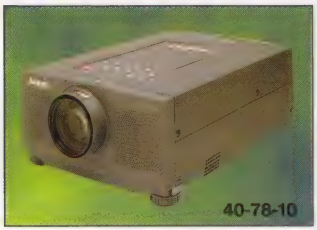
DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Sanyo PLC-SU7	12-21-39	1999.00	◗	◗	1999.00
Sanyo PLC-SU20	12-11-35	2479.00	◗	◗	2499.00
NEW Sanyo PLC-SU22	75-78-16	2877.00	◗	◗	2899.00
Sanyo PLC-XU20	31-35-72	3559.00	◗	◗	3575.00
Sanyo PLC-XU22	90-52-86	4114.00	◗	◗	4125.00
PLC-SU7 3rd year extended warranty upgrade	94-73-87	499.00	◗	519.95	514.75
PLC-SU20 3rd year extended warranty upgrade	38-30-21	485.00	◗	499.00	494.01
Sanyo Upgrade for XU20/22	37-00-30	582.69	◗	599.00	593.01

OTHER ITEMS
OFFICE PRODUCTS SEE PAGES 459–533
FOR STATIONERY SEE PAGES 1017–1034

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LCD PROJECTORS

SANYO



The new **PLC-XP7** boasts 1300 ANSI lumen brightness at a bugdet price. Weighing in at only 6.6kg, this is an ideal unit for XGA graphics and PowerPoint users.
The **PLC-XU10** is an ultra-compoact SGA resolution projector. With a built-in PCMCIA slot for notebook free presentations, and 800 ANSI lumens brightness.



The new **PLC-XP17/XP20** are lightweight, superbright LCD projectors. Packed with innovative features, they have 1600/2200 ANSI lumens brightness, XGA resolution built-in amplifier and speakers, digital keystone correction and incorporate Plug & Play compatibility. Includes digital zoom and multiple computer inputs.



At 2800/3300 ANSI lumens the **PLC-XP10BA** are the brightest projectors in their class. Revolutionary DRIT technology, Plug & Play compatibility and easy interfacing capabilities make these the most advanced LCD projectors on the market. The projection lens can be moved up or down so you can put the image where you want it.

Model	Sanyo PLC-XP7/XU10	Sanyo PLC-XP17/XP20	Sanyo PLC-XP10BA
LCD Panel	Poly-silicon TFT		
Max. resolution	1024 × 768 XGA		1024 × 768 XGA/1280 × 1024SXGA
Colours	16.7 million		
Brightness ANSI	1300/800 ANSI lumens	1600/2200 ANSI lumens	2800/3300 ANSI lumens
Video compatibility	PAL, NTSC, SECAM		
Dimensions (W × D × H)	272 × 412 × 145mm (XP7) 216 × 328 × 109.2mm (XU10)	272 × 412 × 145mm	390 × 582 × 233mm
Weight	6.6kg	6.9kg	17.8kg
Warranty	2 Year Loan Swap-out		

EXTENDED WARRANTIES NOW AVAILABLE

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Sanyo PLC-XP7	40-78-10	3979.00	◗	◗	3999.00	
Sanyo PLC-XU10	50-08-41	3477.55	◗	◗	3495.00	
Sanyo PLC-XP17	57-39-38	CHECK ONLINE	◗	◗	FREE Call	NEW
Sanyo PLC-XP10BA	64-36-01	4685.00	◗	◗	4695.00	
Sanyo PLC-XP20	35-20-50	CHECK ONLINE	◗	◗	FREE Call	NEW
Sanyo Upgrade for XP7/10	75-95-76	706.95	◗	725.95	718.69	

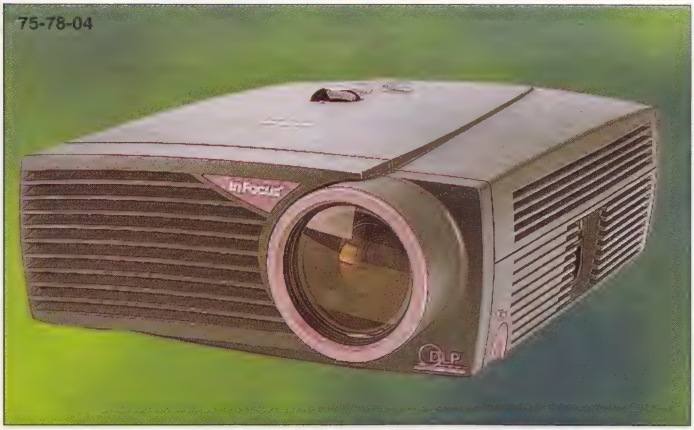
OTHER ITEMS

OFFICE PRODUCTS SEE PAGES 459–533
FOR STATIONERY SEE PAGES 1017–1034

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LCD PROJECTORS

InFocus SYSTEMS



Personal Projectors
The **LP425z** and **LP435z** are light enough to take anywhere – you need never be at the mercy of someone else's equipment again. With built-in manual zoom and focus lens it's easy to accommodate your host's room size, conference table or media trolley without resorting to the traditional hunt for phone books. These projectors provide outstanding clarity, excellent resolution, high brightness and a crisp 400:1 contrast ratio which when coupled with their Digital Light Processing technology from Texas Instruments, precision optics and built-in speaker, provide an attractive and very portable package.

Incredibly lightweight and sleek, the **InFocus LP400** doesn't compromise on features or performance. You get outstanding SVGA resolution, high-bright images and crisp contrast that let you project easily anywhere — no need to pull the shades down. Precision optics, powerful lamp and built-in speaker round out a complete projection solution, all in an unbelievably portable and affordable package.

You're always in control of your presentation when you rely on the InFocus LP400. It's so lightweight, affordable and versatile, you can take it anywhere. You're never at the mercy of someone else's equipment when a successful presentation is at stake.

The **new LP330** is small, full-featured, and a mere 2.2kg. A true **XGA** 1024 × 768 resolution to match your high-end laptop. A brightness of 650 lumens the LP330 projects truly stunning images in any setting. An additional feature is the Executive Plus Remote which allows you to control your presentation from anywhere in the room.

Model	LP330	LP400	LP425z	LP435z
LCD Panel	Polysilicon TFT			
Max. resolution	800 × 600 SVGA	1024 × 768 (SVGA)		
Colours	16.7 million			
Brightness	900 ANSI	1000 ANSI	700 ANSI	650 ANSI
Video compatibility	NTSC, PAL, SECAM			
Dimensions (W × D × H)	225 × 300 × 98mm		229 × 305 × 100mm	229 × 267 × 54mm
Weight	3.4kg		3.09kg	2.2kg
Warranty	2 years return to base			

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
InFocus LP330	52-99-87	2975.00	➧	➧	2999.00
InFocus LP400	50-36-80	1629.00	➧	➧	1659.00
InFocus LP425z	64-35-91	1714.00	➧	➧	1745.00
InFocus LP435z	75-78-04	3676.55	➧	➧	3695.00

OTHER ITEMS FOR PROFESSIONAL SCREENS SEE PAGE 370

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LCD PROJECTORS

InFocus SYSTEMS

Conference Room Projectors
If you demand the smoothest, most lifelike video and outstanding DVD playback combined with bright projection, XGA resolution and rich, deep colours, the **InFocus LP755** can show every detail, even when the room lights are on.
Everyone in the company can access the projector or view stored presentations with unique InFocus LightPort™ networking software. Connect the InFocus LP755 to a network server, just like a shared printer or other peripheral.
Sharing spreadsheets or screen shots in a group is easy, you can automatically zoom in/zoom out, using instant digital magnification with a single touch of a button.

The InFocus LP755 is the conference room projector for the next millennium with its advanced video, rich colours and whisper-quiet operation. It can even be shared over a server for remote manageability and easy accessibility for everyone on your network.

- **Amazing Video** – Enhanced DVD-quality images, sets a new standard in video projection.
- **HDTV compatible** – Projector automatically resizes 1080i HDTV input preserving 16:9 ratio.
- **Share it on your network –** Links to your LAN with LightPort networking software.
- **Quiet** – Operation and instant power-off for absolute silence.
- **Brilliant** – 1000 lumens makes presenting easy, with or without the lights on.
- **True XGA** – 1024 × 768 resolution for superior full-screen images and intelligent resizing for SVGA and VGA.
- **Automatic image configuration** – Instant-on, automatic calibration.
- **Easy to connect** – the innovative CableWizard3 system connects everything easily.



The InFocus LP770 easily outshines the typical meeting room projector and handles ultra high-resolution business graphics with ease. An advanced polysilicon LCD and incredible 2000 lumens ensure bright, saturated colours and crisp detail in graphic, spreadsheets, video and data. Best of all, the InFocus LP770 builds in sophisticated projection features typically found only in high-end auditorium projectors, and, like the LP755, Light Port networking software can connect everyone on the network server to the projector.

- **High-End features** – Digital magnifier, picture-in-picture, built-in laser porinter.
- **Dual Source Compatibility** – lets you view a second spreadsheet on top of the first, switch between two simultaneously active presentations – even use two computers at once.

Model	LP755	LP770
LCD Panel	Polysilicon TFT	
Max. resolution	1024 × 768 XGA	
Brightness ANSI	1000 Lumens	2000 Lumens
Video Compatibility	NTSC, PAL, SECAM	
Dimensions (W × D × H)	295 × 367 × 132mm	299 × 360 × 122mm
Weight	4.4kg	5.89g
Warranty	2 years return to base	

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
InFocus LP755	81-94-75	3352.00	◆	◆	3369.00
InFocus LP770	64-77-83	4388.00	◆	◆	4399.00

OTHER ITEMS FOR SCREENS SEE PAGE 368, 369, 370

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LCD PROJECTORS

NEC


22-52-88


38-29-95

The **MultiSync VT440** and **VT540** from NEC integrate the latest 1024 × 768 Advanced Accublend technology, up to 1100 ANSI lumens, up to 400% digital zoom, all in a lightweight design.
Don't let the light weight of **NEC's** new **LT84** projectors fool you. Tough yet less than 3kg, these ultra-portable projectors are big on power and technical sophistication. DLP and Advanced AccuBlend combine to give these eye-catching projectors a best in class brightness of 700 ANSI lumens and 250:1 contrast (LT140: 800 ANSI lumens and outstanding 350:1 contrast) making them appropriate for any venue from fully lit conference rooms to large ballrooms.

In the latest upgrade to the **MT series**, the **MT840** and **MT1040**, the world's leading LCD business projectors have been made even better. A new 180 watt DC lamp and higher aperture ratio LCD panels yield advances in brightness and contrast; a maximum of 1500 ANSI lumens (MT1040: 1300 ANSI) is now available. With 16.7 million colour active matrix TFT technology, these projectors produce vivid, life like, uniformly lit images.

Advance AccuBlend technology allows the MT840 SVGA resolution, and the MT1040 XGA resolution. Two computer inputs and two video sources, plus stereo speakers and a full set of outputs, help meet almost any interfacing requirement.

Model	LT84	VT440/VT540	MT840	MT1040
LCD Panel	Polysilicon TFT			
Max. resolution	800 × 600	1024 × 768	800 × 600	1024 × 768
Brightness ANSI	700 Lumens	1100 Lumens (VT440) 1000 (VT540)	1500 Lumens	1300 Lumens
Video compatibility	Video, NTSC, PAL, SECAM			
Dimensions (W × D × H)	235 × 298 × 58mm	244 × 284 × 103mm	281 × 371 × 121mm	
Weight	2.5kg	3.9kg	5.4kg	
Warranty	12 months return to base			

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	NEC MultiSync LT84	35-20-23	2476.33	➧	➧	2495.00
NEW	NEC MultiSync VT440	22-52-88	2079.33	➧	➧	2095.00
NEW	NEC MultiSync VT540	12-11-75	2972.59	➧	➧	2995.00
	NEC MultiSync MT840	38-29-95	2778.06	➧	➧	2799.00
	NEC MultiSync MT1040	81-41-77	3979.03	➧	➧	3999.00

OTHER ITEMS FOR PROFESSIONAL SCREENS SEE PAGE 370

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

LCD PROJECTORS

SHARP





The range of Sharp models are all high resolution full colour LCD data projectors with between 600 and 2000 ANSI lumens and up to XGA resolution. They are compatible for direct PC connection and comes with wireless remote control with mouse, laser pointer and backlit functions for perfect presentations.

XG-NV7XE FEATURES:
- Smallest projector in the Sharps range.
- Packing a powerful punch at 800 ANSI lumens and only 2.85kg.
- 2 PC and 2 Video.
- XGA resolution.
- DLP technology.

XG-NV4SE FEATURES:
- Brightness – 700 ANSI lumens.
- SVGA Resolution.
- Weight 4.5kg.

XG-NV51XE FEATURES:
- Brightness – 1000 ANSI lumens.
- True XGA (1024 × 768) resolution.
- Infra red transfer.
- Plug-and-Play.
- Low fan noise only 37db.

FOR PROFESSIONAL SCREENS SEE PAGE 370

Model	Sharp XG-NV4SE	Sharp XG-NV51XE	Sharp XG-NV6XE	Sharp XG-NV7XE
LCD Panel	TFT Polysilicon			
Max. resolution	1024 × 768 XGA	1024 × 782 XGA	1024 × 768 XGA	
Brightness ANSI	700 ANSI lumens	1000 ANSI lumens	2200 ANSI lumens	800 ANSI lumens
Video compatibility	PAL, NTSC, SECAM		NTSC, PAL, SECAM	PAL, NTSC, SECAM
Contents	Projector, carry case, cables, manuals			
Dimensions (W × D × H)	299 × 316 × 121mm	244 × 128 × 337mm	261 × 356 × 129mm	236 × 312 × 58mm
Weight	4.5kg		7.2kg	2.8kg
Warranty	12 months return-to-base			

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Sharp XG-NV4SE	64-20-28	1919.00	▶	▶	1949.00	✂
Sharp XG-NV51XE	53-17-99	2976.00	▶	▶	2999.00	NEW
Sharp XG-NV6XE	53-77-80	5345.00	▶	▶	5345.00	✂
Sharp XG-NV7XE	12-10-60	3636.00	▶	▶	3655.00	

OTHER ITEMS

FOR OFFICE EQUIPMENT SEE PAGES 441–533
FOR STATIONERY SEE PAGES 1017–1034

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

LCD PROJECTORS

SONY





Sony's VPL-PX1 Ultra Portable Projector features XGA resolution and a brightness of 1000 ANSI lumens making it possible to get your message across in fully lit meeting rooms. Sony's unique vertical design makes it possible to project the image high on a wall with minimal keystone distortion while providing an extremely small footprint.

The **VPL-CS1** "SuperLite"™ LCD Projector is Sony's smallest and lightest projector, and yet it provides superior image quality via three panel LCD technology. It features digital keystone correction, multiscan capability, enough brightness to display images with the lights on, Sony's new Projector Station software, a remote control, and a carrying case.

The VPL-PX20 is a versatile projector that can be used as either an installation or portable projector. 1400 ANSI and the three panel LCD technology ensure good uniformity and colour reproduction. Add in the ability to handle variable throw distances by use of optional lenses, and the VPL-PX20 is perhaps Sony's most flexible, high performance projector.

The **VPL-PX30** can also be used as either an installation or portable projector. The high brightness of 2400 ANSI lumens and its LCD technology ensure excellent projection quality.

The **VPL-S900** provides true SVGA resolution with a bright 900 ANSI lumens through the use of large aperture LCD panels with Metal Mask Technology.

Model	VPL-PX1	VPL-CS1	VPL-PX20	VPL-PX30	VPL-S900
Compatibility	PC & Mac				
LCD Panel	Polysilicon TFT				
Max. resolution	1024 × 768	800 × 600	1024 × 768		800 × 600
Brightness	1000 ANSI	600 ANSI	1400 ANSI	2400 ANSI	900 ANSI
Video Compatibility	NTSC/PAL/SECAM				
Dimensions (W × D × H)	118 × 340 × 223mm	203 × 280 × 76mm	—	—	339 × 322 × 136mm
Weight	4kg	3kg	—	—	5.9kg
Warranty	12 months return-to-base				

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Sony VPL-PX1	50-30-90	3730.28	➧	➧	3749.00
Sony VPL-CS1	61-31-52	1763.76	➧	➧	1795.00
Sony VPL-PX20	34-91-77	4238.38	➧	➧	4249.00
Sony VPL-PX30	51-40-16	6399.00	➧	➧	6399.00
Sony VPL-S900	10-17-57	2873.34	➧	➧	2895.00

OTHER ITEMS

FOR A RANGE OF PCs, MACS & ACCESSORIES SEE PAGES 50–185

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DIGITAL PROJECTORS

Kodak A-Z PRODUCTS



The **Kodak V600** and **V600 Zoom** delivers sharp XGA resolution and 800 ANSI lumens in a rugged, but stylish unit.

- **Affordable** – At last the right projector at the right price from a reliable and trusted source – Kodak.
- **Brilliant** – 800 ANSI lumens. Delivers crisp, easy-to-read text and vibrant pictures.
- **Easy to use** – Just unpack and plug in and you're on ... in seconds.
- **Zoom in on details** – Built-in, manual zoom lens lets you see every remarkable detail (Kodak V600 Zoom Digital Projector).
- **Cool to the touch** – The Kodak V600 and V600 Zoom won't burn your hand or your desktop.
- **XGA Compression** – Setting new standards, this SVGA projector performs like an XGA projector. Try it with an XGA laptop and see outstanding results.



Featuring 100 ANSI Lumens, the **DP1100** is ideal for use in ambient light conditions, giving excellent projection brightness for clear, easy-to-read images.

The **Kodak DP2000** Digital Projector delivers sharp XGA resolution and 650 lumens in a rugged, but stylish unit that fits in the palm of your hand. It features Kodak's Image Manager technology, which delivers picture-perfect every time, in any setting.

Model	Kodak V600	Kodak V600 Zoom	Kodak DP1100	Kodak DP2000
Max Resolution	800 × 600		1024 × 768	1024 × 768 (XGA)
Colour Depth	16.7 million (24-bit)			
Projection Lens	Fixed/Manual Focus	Manual Zoom/Manual Focus		
Dimensions (W × D × H)	325 × 250 × 99mm	325 × 275 × 92mm	229 × 318 × 99mm	222 × 247 × 64mm
Weight	3.4kg	3.45kg	3.4kg	2.18kg

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
V600 Digital Projector	37-00-59	1599.00	➧	➧	1625.00	NEW
V600 Zoom Digital Projector	53-78-43	1769.00	➧	➧	1799.00	NEW
DP1100 Digital Projector	66-76-14	3289.00	➧	➧	3295.00	
DP2000 Digital Projector	53-00-70	2979.00	➧	➧	2999.00	

OTHER ITEMS

FOR OFFICE PRODUCTS SEE PAGES 459–533

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

LCD PROJECTOR BULBS

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
3M					
Spare Bulb for MP8610	86-49-49	106.15	➧	109.95	108.85
Spare Bulb for MP8635	86-12-47	357.18	➧	369.95	366.25
Spare Bulb for MP8670 & MP8745	86-08-38	357.18	➧	369.95	366.25
Spare Bulb for MP8725	86-38-95	289.59	➧	299.95	296.95
Spare Bulb for MP8750	86-27-72	337.87	➧	349.95	346.45
Spare Bulb for MP8780	86-36-80	395.80	➧	409.95	405.85
EPSON					
Spare Bulb for EMP500/700	86-98-33	314.70	➧	325.95	322.69
Spare Bulb for EMP710	86-53-53	314.70	➧	325.95	322.69
Spare Bulb for EMP5350/7250/7350	86-76-56	482.69	➧	499.95	494.95
Spare Bulb for EMP8000	86-64-65	453.72	➧	469.95	465.25
SANYO					
Spare Bulb for F/PLCSU7/SU10/SU15/XU10	86-30-87	405.45	➧	419.95	415.75
Spare Bulb for PLSP10/XP7/XP10	86-53-44	318.56	➧	329.95	326.65
Spare Bulb for PLC9005/XF10	86-94-76	627.51	➧	649.95	643.45
INFOCUS					
Spare Bulb for LP400	86-40-11	337.87	➧	349.95	346.45
Spare Bulb for LP330	86-60-67	386.14	➧	399.95	395.95
Spare Bulb for LP755	86-78-53	453.72	➧	469.95	465.25
Spare Bulb for LP770	86-93-14	482.69	➧	499.95	494.95
Spare Bulb for LP1000	86-87-21	502.00	➧	519.95	514.75
SHARP					
Spare Bulb for XG-NV4SE/XG-NV5SE	86-82-29	434.41	➧	449.95	445.45
Spare Bulb for XG-NV6X	86-76-71	395.80	➧	409.95	405.85
Spare Bulb for XG-NV7XE	86-78-02	405.45	➧	419.95	415.75
SONY					
Spare Bulb for VPL-PX1	86-62-54	289.59	➧	299.95	296.95
Spare Bulb for VPL-CS1	86-31-46	308.90	➧	319.95	316.75
Spare Bulb for VPL-PX20/PX30	86-34-68	382.28	➧	395.95	391.99
Spare Bulb for VPL-S900	86-91-71	279.94	➧	289.95	287.05
PHILIPS/POLAROID/KODAK/NEC					
Philips Bulb for Philips Hopper	50-30-87	234.40	➧	234.40	234.40
Polaroid Spare Bulb for Polaview 235/335	86-15-19	270.28	➧	279.95	277.15
Kodak Spare Bulb for DP900/DP1100	86-17-60	318.56	➧	329.95	326.65
NEC Spare Bulb for LT84/LT140	86-86-64	289.59	➧	299.95	296.95
NEC Spare Bulb for MT840/MT1040/MT1045	86-67-44	241.32	➧	249.95	247.45

OTHER ITEMS

OFFICE PRODUCTS SEE PAGES 459–533
FOR STATIONERY SEE PAGES 1017–1036

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

LCD PROJECTORS ACCESSORIES







DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Ultraportable Profector Softcase (350×240×175mm)	64-18-98	32.03	35.95	34.87	33.83
Standard Projector Softcase (370×150×300mm)	64-32-04	33.45	35.00	34.65	34.30
Large Projector Softcase (480×150×330mm)	64-54-45	35.59	39.95	38.75	37.59
Pilot Style Projector Case with handles and wheels	64-95-44	62.32	69.95	67.85	65.82
Rolling Hardcase for Epson 725077350	64-18-99	204.78	▶	222.95	216.26
Rolling Hardcase for Epson 8000/9000	64-70-74	293.87	▶	319.95	310.35
SMS Universal Projector Trolley w/2x Beech Shelves	64-23-08	257.13	▶	279.95	271.55

OTHER ITEMS

FOR LCD PROJECTORS SEE PAGES 352–365

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶Save £££'s!
▶▶Check live stock
▶▶Track order status

PLASMA DISPLAYS

FUJITSU

EXTENDED WARRANTIES AVAILABLE



Fujitsu introduce their revolutionary multi-media 42″ flatscreen Plasma Displays. **Plasmavision** has full multi-media capabilities and is simple to set up and use – just plug in your laptop, video, DVD, satellite system and watch your images jump out from the screen. Plasmavision is ony 15cm in depth, so it can be hung on the wall like a picture, it can be self standing or even hung from the ceiling for added impact. The 42″ flatscreen technology and widescreen format also enable Plasmavision to be viewed clearly through an incredible 160 degrees. Plasmavision has limitless applications, from an advertising medium, presentation tool, information centre or interactive point of sale through to digital signage or leisure and entertainment.

FEATURES

- 42″ diagonal screen display.
- 160 degree viewing angle.
- Dimensions (W × H × D): 104 × 15 × 64cm.
- Weight:38.5kg.
- 16.77 million colours.
- Two built-in speakers.
- Horizontal 852 × Vertical 480 pixels.
- 400:1 contrast ratio.
- PCMCIA Slot (PD S4204) for PC Card viewer.

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	42″ Plasmavision HTM42 (complete with stand)	50-49-48	3788.00	➧	➧	3795.00
	42″ Plasmavision PD S4204 (+ PCMCIA Slot)	50-08-40	4580.00	➧	➧	4595.00
NEW	42″ Plasmavision PD S4211	50-17-65	5395.00	➧	➧	5395.00
NEW	42″ Plasmavision PD S4221 (True XGA)	50-30-93	7495.00	➧	➧	7495.00
	ACCESSORIES					
	Desk Top Stand 42″ for PD S4204	50-98-33	106.15	➧	109.95	108.85
	Vertical Wall Mounting Bracket 42″	50-53-53	194.50	➧	199.95	197.95
	EXTENDED WARRANTIES					
	42″ PlasmaGuard 2nd & 3rd Year Warranty On-Site/Loan Replacement	50-78-01	978.76	➧	995.00	989.03
	42″ PlasmaGuard 2nd & 3rd Year Warranty RTB	50-82-28	520.39	➧	539.00	533.61
	42″ PlasmaGuard 2nd & 3rd Year Warranty Parts Only RTB	50-15-19	307.99	➧	319.00	315.81

OTHER ITEMS

FOR LCD PROJECTORS SEE PAGES 352–364

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PLASMA DISPLAYS

Sony PFM-500A2W display
Lightweight, thin panel to display crisp, direct-viewing images. Professional monitors have attained a new level of innovation with the Sony PFM-500A2W Professional Plasma Monitor. It has a lightweight and thin 42″ flat panel to display crisp direct-viewing images.

- Active Area (W × H): 920 × 518mm 42″/1056mm (measured diagonally).
- Resolution: 640 × 480.
- Dimensions (W × D × H): 1036 × 152 × 636mm.
- Advanced scan converter including variable and offset phase sampling and four-line vertical interpolation technologies.
- Colour System: NTSC, PAL (Composite, Y/C, YUV, RGB).
- HDTV (Y/PB/PR, RGB).
- Weight: Approx. 45kg.



Pioneer PDP V402E/PDP 502MYE display
Includes high screen brightness and extra wide viewing angle. Introducing the PDP-502MYE the world's first 50″ 16:9 aspect ratio, wide screen plasma display with true XGA (1280 × 768) resolution. The wide 50″ (diagonal) screen will ensure your message reaches its audience with maximum impact. While the slim design (less than 10cm deep) allows for versatile system mounting in almost any location.

- Screen size (W × H): 1098.2 × 620.5mm (50″ diagonal).
- Dimensions (W × H × D): 1218 × 714 × 98mm.
- Weight:43kg.
- 40″ version also available.



JVC GD-V4200PZW Plasma Display Monitor
New from JVC's Professional range comes the 42″ (16:9) Flat Plasma Monitor delivering Bright, High-Contrast Pictures with a Wide Viewing Angle.

- 500:1 Contrast Ratio.
- Super Bright Picture.
- 16.77 Million Colours.
- Wide Viewing Angle (160 Degrees).
- Selectable Wide-Screen Mode.
- NTSC/PAL/SECAM Compatibility.
- Wall/Ceiling Mountable.
- Resolution 640 × 480.
- Dimensions (W × H × D): 921 × 518.4 × 150mm.
- Weight: 38Kg.



DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Sony PFM-500A2W 42″ Plasma Monitor	53-77-91	5399.00	♦	♦	5399.00	
Pioneer PDP V402E 40″ Plasma Monitor	64-77-94	4299.00	♦	♦	4299.00	✂
Pioneer PDP 502MX 50″ Plasma Monitor	77-83-28	9295.00	♦	♦	9295.00	
JVC GD-V4200PZW 42″ Plasma Display (XGA Compatible)	62-53-48	4795.00	♦	♦	4795.00	NEW
NEC 42″ (XGA Compatible) Public Display Plasma Monitor	42-94-75	5295.00	♦	♦	5295.00	NEW

OTHER ITEMS FOR LCD PROJECTORS SEE PAGES 352–364

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LCD PROJECTION SCREENS



3M OVERHEAD PROJECTORS

9700 – Portable (10.3kg) but powerful enough (400W/4000 lumens) for use with LCD panels. Ideal for the travelling presenter.

9800 – Top of the range 400W OHP for use with film or LCD panels. 6000 lumens of brightness provide images of the highest quality.

WS150 and WS180 Wall Screens

For wall or ceiling mounting

3M wall screens are supplied with brackets for either wall or ceiling mounting. Screen surface backed with high quality fabric. Patented locking device integrated within the safety roller mechanism.

Tripod Screens

For more flexibility

These all purpose screens are backed with a high quality fabric and supported by a tripod stand which can swivel through 360°. Tension knob to help ensure a flat screen surface. Integrated, retractable keystone eliminator. Locking latch to hold screen secure during transportation.



Projection Trolley

A practical, universal trolley suitable for classrooms and training rooms. Non adjustable platform height at 47cm. Two side tables, adjustable for height or easily folded away. Easily manoeuvred and secured with 4 roll casters, two with brakes.
Platform: 43 × 43cm
Side tables: 34 × 27.5cm

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	3M TS150 1.5m × 1.5m Tripod Projection Screen	98-99-94	75.95	84.95	82.40	79.93
	3M TS180 1.8m × 1.8m Tripod Projection Screen	79-37-95	109.95	➧	118.95	115.38
	3M WS150 1.5m × 1.5m Wall Fitted Projection Screen	53-01-60	62.30	69.95	67.85	65.82
	3M WS180 1.8m × 1.8m Wall Fitted Projection Screen	97-75-42	79.95	89.95	87.25	84.63
NEW	3M Wall/Ceiling Brackets (Keystone Eliminator)	22-52-81	16.95	18.95	18.38	17.83
NEW	3M 1708 250 Watt Economy Overhead Projector	38-30-56	146.91	➧	159.95	155.15
NEW	3M 2770C Portable 400 Watt Overhead Projector	12-11-70	334.00	➧	345.95	342.49
	3M 9400 High Lumen Overhead Projector	87-96-71	288.68	➧	299.00	296.01
	3M 9700 High Lumen Portable OHP	77-88-13	477.91	➧	495.00	490.05
✂	3M 9800 High Lumen OHP	97-75-11	632.25	➧	649.95	643.45
	3M Projection Trolley	64-33-40	76.40	79.95	79.15	78.36

OTHER ITEMS
FOR LCD PROJECTORS SEE PAGES 352–373
FOR OFFICE EQUIPMENT SEE PAGES 459–533

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRINTERS & ACCESSORIES

INDEX BY PRODUCT TYPE

Digital Copier & Printers 453
Digital Copiers 453
Dot Matrix Printers 450
Dot Matrix Printers – 24-Pin 446-449
Dot Matrix Printers – 9-Pin 442-445
Guide to – All-In-One Multifunctional Products 452
Guide to – Colour Laser Page Printers . 426
Guide to – Dot Matrix & Line Printers .. 441
Guide to – Inkjet Printers 374
Guide to – Page Printers 404
Inkjet Printer Accessories (Canon) 397
Inkjet Printer Accessories (Epson) 397
Inkjet Printer Accessories (Hewlett-Packard) 397
Inkjet Printers – Colour 376-396
Inkjet Printers – Portable 377
Laser Page Printer – Accessories (Hewlett-Packard) 423
Laser Page Printers 406-422
Laser Page Printers – Colour 427-432, 434-437
Laser Printer Accessories 439-440
Laser Printers – Colour 427
LED Page Printers 405
Line Printers 451
Multifunctional Products 454-458
On-Site Service Packs – Hewlett-Packard 425
Plotters 398-399
Printer Starter Kits 375
Solid Ink Printers – Colour 433
SupportPacks – Hewlett-Packard 424
Thermal Printers 401
Third Party Printer Memory Upgrades .. 438

INDEX BY MANUFACTURER

Action
Printer Starter Kits. 375

Brother
Inkjet Printers – Colour. 377
Inkjet Printers – Portable. 377
Laser Page Printers. 408–409
Laser Page Printers – Colour. 430
Laser Printer Accessories. 439
Multifunctional Products. 458
Third Party Printer Memory Upgrades 438

Canon
Inkjet Printer Accessories. 397
Inkjet Printers – Colour. 377–381
Inkjet Printers – Portable. 377
Multifunctional Products. 457

Epson
Dot Matrix Printers. 450
Dot Matrix Printers – 24-Pin. . . 446–447
Dot Matrix Printers – 9-Pin. . . . 442–443
Inkjet Printer Accessories. 397
Inkjet Printers – Colour. 382–387
Laser Page Printers. 406–407
Laser Page Printers – Colour. 427
Multifunctional Products. 457
Third Party Printer Memory Upgrades 438

Hewlett-Packard
Inkjet Printer Accessories. 397
Inkjet Printers – Colour. 388–396
Laser Page Printer – Accessories. . . 423
Laser Page Printers. 416–422
Laser Page Printers – Colour. . 428–429
Multifunctional Products. 454–456
On-Site Service Packs. 425
Plotters. 398–399
SupportPacks. 424
Third Party Printer Memory Upgrades 438

Kyocera
Laser Page Printers. 410–411

Lexmark
Inkjet Printers – Colour. 376
Laser Page Printers. 412–413
Laser Page Printers – Colour. 431

Minolta
Laser Page Printers – Colour. . 434–435

OKI
Dot Matrix Printers – 24-Pin. 448
Dot Matrix Printers – 9-Pin. 444
Laser Page Printers – Colour. 427
LED Page Printers. 405

Panasonic
Dot Matrix Printers – 24-Pin. 449
Dot Matrix Printers – 9-Pin. 445

QMS/Minolta
Laser Page Printers – Colour. . 434–436

Ricoh
Digital Copiers. 453

Samsung
Laser Page Printers. 415

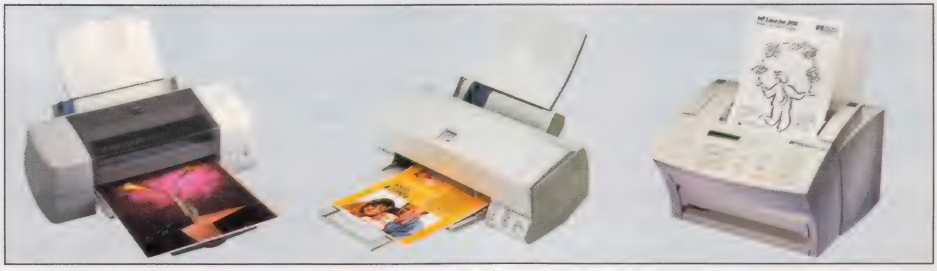
Sharp
Digital Copier & Printers. 453

Tally
Dot Matrix Printers – 24-Pin. 449
Laser Page Printers – Colour. 437
Line Printers. 451

Tektronix
Laser Page Printers – Colour. 432
Solid Ink Printers – Colour. 433

Xerox
Laser Page Printers. 414
Laser Printer Accessories. 440
Laser Printers – Colour. 427

Zebra
Thermal Printers. 401



INCREDIBLE OFFERS!

HP InkJet printers at a glance

TAKE COVER

HEWLETT PACKARD Business Reseller

Professional printing in the office



HP DeskJet 1120C
Professional printing with wide format capability
69-38-40



HP 2000C
High performance with low cost of ownership
25-80-10



HP 2500C/CM
Next generation InkJet printer for small business workgroups
47-46-43
49-28-07

Professional printing at home or in the office

HP DeskJet 1220C
HP DeskJet 1220c High performance A3 printer for all business needs
22-52-30





HP DeskJet 895Cxi
Enhanced performance and networkability
25-98-99

Quality personal printing



HP DeskJet 610C
Easy everyday printing
22-50-91



HP DeskJet 970Cxi
Unparalleled photo-quality printing and performance
47-22-66

HP | DeskJet 970Cxi | Professional Series Colour Printer

LOWEST PRICES EVER!

The printer that rewrites the rules of inkjet printing

Stunning photo quality, superb text, incredible speed and automatic duplex printing in one complete package



The HP DeskJet 970Cxi Professional Series printer is designed for demanding professional-level home and office users who want the very best in print quality, speed and versatility. Its next generation printing platform combines leading-edge HP inkjet technology with advanced yet easy-to-use features to deliver unprecedented all-round performance in a personal inkjet printer.

FEATURES:

- Up to 12ppm black and 10ppm colour printing speed
- Network capable with optional HP JetDirect print server
- Compact innovative design and quiet operation
- Easy installation
- Supports DOS, Windows 3.x, Windows 95/98, Windows NT4.0, Windows 2000 Professional and Mac OS 8.1 and higher
- High capacity easy loading 150 sheet paper tray
- Alternative 2400 x 1200dpi mode on photo paper – overall image quality – similar to PhotoREt III
- Unique automatic two-sided printing module

PC Magazine Editors' Choice | Recommended Computer World | PC Advisor Recommended | Mac User | Editors' Choice Macworld

Target Customer

- Professional-level home and office users who want unparalleled printing performance with ultimate photo quality.

Target Customer Needs

- Best possible photo quality and best text and graphics on any paper
- Fastest print speeds – in all modes on all papers
- Innovative features which save time and money
- Compact, attractive design and quiet operation

Key selling points

- Ultimate photo quality with HP PhotoREt III Precision Technology
- Unrivalled quality for everyday text and graphics printing
- High-performance – up to 12ppm black and 10ppm colour
- Unique smart features such as automatic two-sided printing save time, money and paper
- Advanced driver features with HP ColorSmart III for sharper, brighter and more accurate colours
- Compact design and quiet operation
- Broad operating systems support
- Network capable with optional HP JetDirect print servers

TAKE COVER | HEWLETT PACKARD Business Reseller

HEWLETT PACKARD HELPLINE 08701 66 99 77

Lower prices on-line at action.com

GUIDE TO INKJET PRINTERS

Similar to the dot matrix print head, inkjet printers use a matrix of nozzles (as many as 300) to form the character or pattern on the page. Ink droplets, fed from the cartridge reserves are forced through the nozzles – in most cases by an air bubble created by heat – and deposited very accurately on the paper or film. Inkjet technology has come a long way in the past few years, to the point where it is now uncommon for nozzles to block, ink to leak inside the printer, or wet ink to bleed across the page and colours to run into each other. Modern inkjet printers offer a quick, no-mess, quality solution to a host of office and home-use applications.

Prices can vary from under £100 to over £1000 and several models exist in each price bracket, from portable A4 monochrome (black) only printers to desktop models capable of producing a full colour A3 sized page. In most cases, the manufacturer will have packed as many features into their printer as possible, with consideration to price, and many have included branded technologies designed to augment the standard resolution of the printer.

(For example, a 720 x 720dpi model may be capable of an output that appears to be 1440 x 720dpi, simply because edge smoothing algorithms have been incorporated, or specially coated paper used.)

The following are explanations of the terms used in the specification tables relating to the inkjet and laser printers in this catalogue:

OUTPUT/SPEED

Expressed in pages per minute – PPM. A measure of the amount of time the printer will take to print a standard page – 'standard' having different definitions depending on the manufacturer, though usually based on a 5 percent coverage of the page in one colour.

EMULATIONS

The 'language' your computer will use to talk to the printer. Most printers have more than one emulation – and these will be an industry standard – to ensure that whatever your PC type, communication will be possible.

RAM/BUFFER

Random Access Memory. The processing speed for any page is dependant on the amount of memory your printer has. A page of colour graphics, for example, will require more memory to process than one of monochrome text only. Most printers will have a certain amount of RAM or buffer memory built-in and in many cases, this is upgradable to suit your particular application.

RESOLUTION

Expressed as dots per inch – DPI, or the amount of printed points on the page which make up the image (similar to the pixels that make up the picture on a computer monitor or television). The higher the figure, the higher the resolution. One can expect a reasonably professional output at 300dpi and increasingly sharp graphics at anything above that. Many manufacturers equip their models with enhancement technologies to further improve the definition.

INTERFACES

Defines the type of port/socket on the printer to which you will connect the data cable. The PC standard is currently the Parallel interface and for Apple machines one would generally use a LocalTalk interface. But USB is becoming increasingly popular. Thankfully the various manufacturers of printers and PC equipment have created standards for most types of data connection, eliminating the complex issues that were present in earlier years.

PAPER TRAYS

Information as to the capacity and sizes of paper the built-in automatic feed trays will take. Where applicable, we will also show the output capacities.

WARRANTY & EXTENDED WARRANTY

All the models featured come with some form of warranty as standard – either on-site or off-site. Upgrading/extending your warranty gives added peace-of-mind and is the most cost effective way to guard against unexpected repair costs.

Where applicable we have shown the 'ready bundled' catalogue numbers, incorporating e.g. HP SupportPacks and Epson's CoverPlus for your ordering convenience.



Inkjet Printers 374–396
Canon, Epson, Hewlett-Packard, Lexmark, Brother
Inkjet Printers – Portable 377, 378
Canon, Hewlett-Packard, Brother
Inkjet Printers – Colour 376–396
Canon, Epson, Hewlett-Packard, Lexmark
Inkjet Printer Accessories 397
Canon, Epson, Hewlett-Packard

OTHER ITEMS

FOR GUIDE TO DOT MATRIX PRINTERS SEE PAGE 441
FOR GUIDE TO LASER PRINTERS SEE PAGE 404
FOR GUIDE TO MULTIFUNCTIONAL PRODUCTS SEE PAGE 452

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRINTER STARTER KITS

Action Saves You Time and Money with
Printer Starter Kits...

We've made it easy for you to start working the moment you receive your printer with our unique Printer Starter Kits, containing the essential items you need to set up and start printing immediately.

Inkjet Printers

You will find this logo on those inkjet printer pages which carry **Action Printer Starter Kits:–**

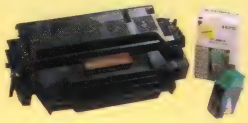
Action Printer Starter Kit 1 contains one PC to Printer IEEE Parallel data cable (1.8m) and one manufacturer original inkjet cartridge.

Laser Printers

You will find this logo on those laser printer pages which carry

Action Printer Starter Kits:–

Action Printer Starter Kit 2 contains one PC to Printer IEEE Parallel data cable and one manufacturer original laser toner cartridge.



Dot Matrix Printers

You will find this logo on those dot matrix printer pages which carry **Action Printer Starter Kits:–**

Action Printer Starter Kit 3 contains one PC to Printer IEEE Parallel data cable and one manufacturer original printer ribbon.

In all cases above, you will find the Starter Kits represent a saving in price over the combined separate purchase prices of their constituent parts, and of course, these kits are ideal to get you new printer up and running the moment you take delivery. Look out for the logo!



◄ INKJET PRINTERS **See pages 374–396 ►**

Hewlett-Packard | Canon | Epson | Lexmark

◄ LASER PRINTERS **See pages 404–437 ►**

Hewlett-Packard | Brother | Xerox | QMS
Lexmark | Kyocera | OKI | Epson
Minolta | Samsung | TekTronix | Tally

◄ DOT MATRIX PRINTERS **See pages 441–451 ►**

Epson | OKI | Panasonic | Tally

Each kit contains these essentials:

- **1 PC to Printer Parallel data cable 1.8m and one additional mono consumable.**

All these items are available separately should you require more as you continue to use your printer.

OTHER ITEMS

FOR INKJET PRINTERS SEE PAGES 374–396
FOR LASER PRINTERS SEE PAGES 404–437
FOR DOT MATRIX PRINTERS SEE PAGES 441–451

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
»Save £££'s!
»Check live stock
»Track order status

NEW *item on this page*

INKJET PRINTERS – COLOUR

LEXMARK



Z11 – One click installation, 1200 x 1200dpi resolution and 4ppm mono and 2.5ppm colour print speeds make this product outstanding value for money.

Z32 – Premium Quality for photos and text. With photo quality resolution and laser sharp black text the Z32 ensures perfect output for whatever you print and its easy to use. Mac and PC compatible.

Z52 – Your perfect partner for photos, graphics, presentations and text. Delivers results fast to help increase productivity. Prints up to 15ppm black and 7ppm colour. Mac and PC compatible.

Optra Color 45 – Enjoy professional colour in a big way. The Optra 45 is an A3 printer that offers workgroups the ultimate combination of speed, versatility and affordability.

CJ5770 – Prints photos direct from your PC or digital camera. Offering up to 8ppm mono and 4ppm colour printing at 1200 × 1200dpi. Supports SmartMedia and Compact Flash digital memory cards.

CJ3200 – Laser quality black text, AccuFeed paper handling, 1200 × 1200dpi resolution. Up to 6ppm mono and 2.5ppm colour printing.

Model	Z11	Z32	Z52	Optra 45
Columns	80			136
Interface	Bi-directional parallel	Parallel, USB		Bi-directional parallel
Cables	See pages 569–575			
Resolution	1200 × 1200dpi		2400 × 1200dpi	True 600dpi (1200dpi image quality)
Print speed	2.5ppm colour; 4ppm black	Up to 3ppm colour; up to 7ppm black	Up to 7ppm colour; up to 15ppm black	4ppm colour; 8ppm black
Fonts	All Windows installed fonts			75 scalable (PostScript Level 2, PCL5c), PCL3
Paper handling	100 sheet input, 50 sheet output			150 sheet input, 50 sheet output
Dimensions (W × D × H)	373 × 213 × 328mm	448 × 211 × 171mm	460 × 302 × 221mm	563 × 444 × 247mm
Weight	1.8kg	2.47kg	4.7kg	9kg
Warranty	12 months SWAP out	12 months		12 months on-site exchange

DON'T FORGET YOUR CONSUMABLES

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	Lexmark Z11	47-94-77	61.55	62.95	62.57	62.20
NEW	Lexmark Z32	22-52-86	68.40	69.95	69.53	69.11
NEW	Lexmark Z52	12-11-74	108.16	◗	109.95	109.29
✂	Lexmark Optra 45	25-89-24	449.95	◗	457.41	454.67
✂	Lexmark Optra 45N	25-89-55	779.96	◗	792.90	788.14
✂	Lexmark ColorJet 3200	47-44-47	68.40	69.95	69.53	69.11
✂	Lexmark PhotoJet 5770	49-31-05	145.54	◗	147.95	147.06
	ACCESSORIES	**FOR USE WITH**				
	Additional 2nd Year on-site warranty	—	26-18-56	28.63	29.95	29.65	29.35

OTHER ITEMS

FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR INKJET PRINTER ACCESSORIES SEE PAGE 397

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

INKJET PRINTERS – PORTABLE COLOUR

Canon brother



45-44-43

The **Canon BJC-50 –** the world's smallest BJ printer. The BJC-50 is aimed at the business user on the move and is ideal for printing memo's, e-mail minutes, additional slides for presentations and coupled with a footprint ½ A4 and a weight of 900g it is the 'ultimate in portability'.
The BJC-50 has a print speed of up to 5.5ppm and 1.9ppm in colour and uses the same cartridges as the well proven BJC-80. The BJC-50 also carries the same IS-12 scanner cartridge capability allowing the business user to scan documents on the move.



22-50-61

The **MP-21C** and the **MP-21 CDX** are the new portable printers from Brother. The MP-21C needs no power supply, on the PCMCIA slot on your notebook PC to print in full colour. The MP-21C portable printer only weighs 1000g and there is no need for a heavy mains adaptor or battery pack to be carried. Print speeds are of up to 1.77ppm mono and up to 2.06ppm in full colour. The MP-21CDX offers all the benefits of the MP-21C but with all the options of a 30 page auto sheet feeder and AC adaptor and parallel Interface cable included.

Model	BJC-50	MP-21C	MP-21CDX
Columns	A4		
Interface	IEEE – 1284 parallel (Bi-directional)	PCMCIA (parallel interface option)	PCMCIA, parallel
Cables	See pages 569–575		
Resolution	720×360dpi with smoothing (BC-10 Black) Colour at 360×360dpi with Drop Modulation Technology	Upto 720×720dpi	
Paper size	A4	Letter, legal, A4, Executive, B5, A5	
Dimensions (W×D×H)	302×112.5×40mm	366×116×232mm	
Weight	0.9kg	1kg	3.4kg
Warranty	12 months return-to-base	12 months on-site	

visit www.action.com/brother

Action Office PLAN
EXTENDED WARRANTY
SEE PAGES 34-36

DON'T FORGET YOUR CONSUMABLES

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
BJC-50	45-44-43	196.69	➧	199.95	198.75
BJC-50 & Extended Warranty	06-12-52	226.20	➧	229.95	228.57
BJC-50 & Scanner Bundle	06-12-69	243.90	➧	247.95	246.46
MP-21C	52-96-50	160.29	➧	162.95	161.97
MP-21CDX	22-50-61	198.65	➧	199.95	199.45

ACCESSORY & CONSUMABLES	FOR USE WITH					
Action Printer Starter Kit	BJC-50	05-00-05	14.29	14.95	14.80	14.65
Black Ink Cartridge	BJC-50	21-83-42	18.11	18.95	18.76	18.57
Colour Ink Cartridge	BJC-50	21-83-59	20.98	21.95	21.73	21.51
Black Ink Cartridge for MP-21C	–	22-17-57	14.34	15.00	14.85	14.70
Colour Ink Cartridge for MP-21CDX	–	22-30-86	14.34	15.00	14.85	14.70

OTHER ITEMS

FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR INKJET ACCESSORIES SEE PAGE 397

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PORTABLE COLOUR INKJET PRINTERS

Canon



Introducing the mobile printer that thinks it's a desktop – the **BJC-85** Colour Bubble Jet printer from **Canon**. Compact, easy-to-carry and offering full desktop quality and speed, it's a total mobile office solution for business on the move, anywhere in the world. Light enough to carry anywhere, small enough to fit on any table or deskpace, it comes equipped with all the features you would expect from a full size colour desktop printer. Printing at up to 5 pages per minute in mono, it turns out pages of smooth, crisp and smudge-free black text. An integral IrDA port enables infra-red communication with your PC, notebook or PDA. Designed for the mobile professional, the immensely lightweight printer comes with a multi-voltage adaptor for connection anywhere in the world.

With the **BJC-85 Scan** you can also scan images into your notebook or PC using the optional colour image scanner cartridge.

Model	BJC-85
Columns	80
Interfaces	IEEE-1284 compatible parallel, IrDA, v1.1, USB
Cables	See pages 569–575
Emulations	Canon Enhanced Mode, Epson LQ2550, BJL Status
Resolution	720×360dpi
Print Speed	Up to 5ppm mono, up to 2ppm colour
Paper Handling	Auto sheet feeder (up to 30 sheets)
Dimensions (W×D×H)	300×157.6×57mm
Weight	1.4kg
Warranty	12 months on-site

DON'T FORGET YOUR CONSUMABLES

COMPUTER BREAKDOWN INSURANCE
Action Office PLAN
EXTENDED WARRANTY
SEE PAGES 34-36

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
BJC-85	31-35-73	167.18	➧	169.95	168.93
✂ BJC-85 SCAN (includes scanning cartridge)	90-52-87	202.59	➧	205.95	204.71
ACCESSORIES & CONSUMABLES					
Action Printer Starter Kit	05-00-05	14.29	14.95	14.80	14.65
Black Ink Cartridge	21-83-42	18.11	18.95	18.76	18.57
Colour Ink Cartridge	21-83-59	20.98	21.95	21.73	21.51
✂ IS-12 Scanning Cartridge	89-72-99	48.10	49.95	49.45	48.96

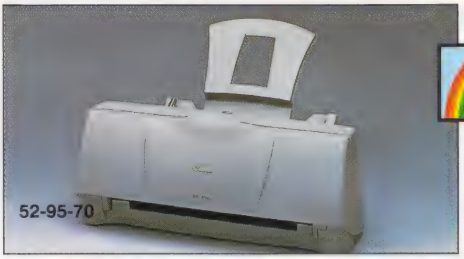
OTHER ITEMS

FOR ORIGINAL INKJET SUPPLIES SEE PAGES 952–958
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR INKJET ACCESSORIES SEE PAGE 397

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

INKJET PRINTERS – COLOUR

Canon



The **BJC1000** is the perfect companion for the home PC, and will meet every home user's printing requirements. The BJC1000 is a very compact printer with a whole host of amazing features. As well as producing pin-sharp 720×360dpi monochrome documents, the BJC1000 can reproduce vibrant colour and graphics from spreadsheets, presentations, reports, homework, etc. Stunning photo-realistic images can also be produced using the optional photo ink cartridge.



Affordable, fast, versatile and brilliant with colour – the **Canon BJC-2100** is the ideal printer for the family home. Simple to use and offering superb capabilities, it turns out excellent results every time, producing everything from quality school projects and letters to banners, T-shirt transfers, greeting cards and more, all in dazzling colour. It also comes with a scanning option and parallel and USB interfaces.

Model	BJC-1000	BJC-2100
Columns	A4	
Interface	IEEE-1284 parallel (bi-directional)	IEEE-1284 parallel (bi-directional), USB
Cables	See pages 569–575	
Emulations	Canon Enhanced Mode, Epson LQ-510, IBM Proprinter X24E	
Resolution	720×360dpi with smoothing	720×360dpi
Print Speed	3.4ppm mono, 0.5ppm colour	Up to 5ppm mono, up to 2ppm colour
Paper Handling	100 sheet auto feeder, manual feed	50 sheets
Dimensions (W×D×H)	360×174×160mm	370×191×164mm
Weight	2.2kg	2.4kg
Warranty	12 months on-site	

DON'T FORGET YOUR CONSUMABLES

Action Office COMPUTER BREAKDOWN INSURANCE EXTENDED WARRANTY SEE PAGES 34–36

DESCRIPTION	FOR USE WITH	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
BJC-1000		52-95-70	44.97	45.99	45.71	45.44	
BJC-1000 & Extended Warranty		06-17-21	72.31	73.95	73.51	73.07	
BJC-2100		53-01-59	59.99	61.35	60.98	60.62	NEW
BJC-2100 & Extended Warranty		06-70-45	95.77	97.95	97.36	96.78	NEW
ACCESSORY & CONSUMABLES							
Action Printer Starter Kit	BJC-2100	05-70-15	21.94	22.95	22.72	22.49	
IS-22 Scanner Cartridge	BJC-2100	89-73-16	40.10	41.95	41.53	41.12	
BC-22e Photo Ink Cartridge	BJC-2100	22-64-37	16.20	16.95	16.78	16.61	
High Resolution Matt Paper (200 sheets)	BJC-2100	41-25-71	14.77	15.45	15.30	15.14	
BC20 Black Ink Cartridge	BJC-2100	21-71-16	16.20	16.95	16.78	16.61	
BC29F Fluorescent Ink Cartridge	BJC-2100	22-64-44	19.07	19.95	19.75	19.55	

OTHER ITEMS

FOR ORIGINAL INKJET SUPPLIES SEE PAGES 952–956
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR INKJET ACCESSORIES SEE PAGE 397

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

INKJET PRINTERS – COLOUR

Canon



Canon introduces the **BJC-5100** BubbleJet printer. Designed for the office professional or home user where speed and quality is paramount. The print speeds have been improved to cope with ever increasing customer demands. With the latest in dual cartridge technology and 1440dpi, the BJC-5100 combines high speed printing with laser-like output.



Cost-effective, fast and immensely functional — the **Canon BJC-6200** is the powerful print performer for busy offices. Boasting Canon's unique separate ink tank system to minimise waste and costs, and rapid print speeds of up to 10ppm in mono and 7ppm in colour, this efficient colour BubbleJet printer makes high-volume printing truly swift and smooth, economical and efficient.

Model	BJC-3000	BJC-5100	BJC-6200
Columns	A4	A3	A4
Interface	IEEE-1284 compatible Parallel, USB	Parallel IEEE-1284 ECP	IEEE-1284 compatible parallel, USB
Cables	See pages 569–575		
Resolution	1420 × 720dpi	1440 × 720dpi	1400 × 720dpi
Print Speed	Up to 9ppm mono, 4ppm colour	Up to 10ppm mono, 4ppm colour	Up to 10ppm mono, up to 7ppm colour
Paper Size	A5, A4, B5, Letter, Legal, No. 10 & DL Envelope, 4″ × 6″	A3, A4, A4+, B5, B4, 11 × 17″ (tabloid), Letter, Letter+, Legal, Envelopes (DL or Commercial 10)	A5, A4, B5, Letter, Letter+, Legal, No. 10, 10 & DL Envelope, Canon 4″ × 6″ photo cards
Paper Handling	100 sheets	130 Sheet Auto Sheet Feeder, Manual Feed	100 sheets
Dimensions (W × D × H)	418 × 306 × 169mm	498 × 279 × 222mm	527 × 236 × 378mm
Weight	3.7kg	5.7kg	4.1kg
Warranty	12 months on-site	12 months EWS	12 months on-site

DON'T FORGET YOUR CONSUMABLES

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
BJC 3000	39-61-39	89.95	91.99	91.44	90.89
BJC 5100	47-17-74	115.04	◗	116.95	116.25
NEW BJC 6200	53-01-66	112.62	◗	114.49	113.80
ACCESSORIES & CONSUMABLES					
Action Printer Starter Kit for BJC 3000	04-53-45	21.94	22.95	22.72	22.49
Action Printer Starter Kit for BJC 6200	04-18-24	21.14	21.95	21.73	21.51
IS-22 Scanner Cartridge	89-73-16	40.10	41.95	41.53	41.12

OTHER ITEMS

FOR ORIGINAL INKJET SUPPLIES SEE PAGES 952–956
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR INKJET ACCESSORIES SEE PAGE 397

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

INKJET PRINTERS – COLOUR

Canon

The **Canon BJC-6500** brings the flexibility of wide-format printing to today's businesses, with superb cost-efficient performance in support. Highly capable of delivering top quality output at rapid speeds, it's a multi-talented printer ideal for the most pressurised office.



77-93-74

The **Canon BJC-8200 Photo** is the performance printer, specially developed for today's imaging professionals. Cost-efficient and creative, it brings Canon's renowned expertise in photo technology right to your desktop, producing stunning, film-quality photo and colour printouts.

The **BJC-4650** from **Canon** is the cost-conscious, high technology solution. Delivering large-format plans, posters and spreadsheets right on your desktop. With the optional scanning cartridge you also have the facility to put colour images straight into your PC. The BJC-4650 is Canon's easy to use, full colour A3 Bubblejet printer. It works with Windows 3.1x, 95 and NT and is compatible with your Mac as well.



68-52-05

Model	BJC-6500	BJC-4650	BJC-8200 Photo
Columns	A3		A4
Mono Speed	Up to 9ppm	Up to 4.8ppm	Up to 3ppm
Colour Speed	Up to 6ppm	Up to 2ppm	Up to 3ppm
Interfaces	IEEE-1284 compatible parallel, USB	IEEE-1284 Parallel (bi-directional), RS-422A Serial	IEEE-1284 compatible parallel, USB
Cables	See pages 569-575		
Resolution	1440 × 720dpi	360 × 360dpi (with Scanner cartridge)	1200 × 1200dpi
Paper Handling	Auto Sheet feeder (up to 100 sheets)		
Dimensions (W × D × H)	574 × 205 × 328mm	447 × 253 × 216mm	450 × 205 × 333mm
Weight	7kg	4.3kg	5.9kg
Warranty	12 months on-site	12 months EWS	12 months on-site

DON'T FORGET YOUR CONSUMABLES

Action Office PLAN — EXTENDED WARRANTY SEE PAGES 34-36

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
BJC-6500	77-93-74	211.44	♦	214.95	213.66
BJC-4650	68-52-05	208.59	♦	209.95	209.43
BJC-8200 Photo	53-00-79	226.20	♦	229.95	228.57
ACCESSORIES & CONSUMABLES					
Action Printer Starter Kit for BJC-6500	04-53-45	21.94	22.95	22.72	22.49
Action Printer Starter Kit for BJC-4650	04-97-00	26.68	29.95	29.05	28.18
BC-30 Black Ink Cartridge for BJC-6500	23-29-33	18.88	19.75	19.55	19.36
BC-31 Colour Ink Cartridge for BJC-6500	23-29-40	20.98	21.95	21.73	21.51
BC-32 Photo Cartridge for BJC-6500	23-29-57	20.98	21.95	21.73	21.51

OTHER ITEMS

FOR ORIGINAL INKJET SUPPLIES SEE PAGES 952–956
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR INKJET ACCESSORIES SEE PAGE 397

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW *item on this page*

INKJET PRINTERS – COLOUR

EPSON®



EPSON COVERPLUS

Page 32



The **EPSON Stylus Color 460** is the ideal printer for first time users, providing superb 720dpi results for home users who require colour for printing documents such as letters, home accounts, greeting cards and web pages. The EPSON Stylus Color 460 at up to 4ppmin black and uses a dual-cartridge system, so that true black text is printed. Developments have been made to the driver interface to provide better user control with easy-to-use input and response mechanism for paper and resolution selection.

The **EPSON Stylus Color 670** is the ideal product for customers who wish to combine excellent print quality and good performance at an affordable price. The EPSON Stylus Color 670 has all the benefits of the EPSON Stylus Color 660 with 1440dpi photo real output as standard and utilising Variable Sized Droplet Technology. It is ideal for printing letters, photographs and a wide variety of other applications on all types of media including plain paper. The printer comes as standard with Parallel and USB interfaces for both PC and Macintosh users.

Model	Stylus Color 460	Stylus Color 670
Columns	A4	
Interface	Bi-directional Parallel	Bi-directional Parallel and USB
Cables	See pages 569-575	
Emulation	Epson ESC/P Raster Colour, Epson Remote	
Resolution	720dpi	1440dpi × 720dpi
Mono Print Speed	4ppm	5ppm
Colour Print Speed	2.5ppm	3.8ppm
Paper Handling	100 A4 cut sheet feeder	
Dimensions (W × D × H)	429 × 275 × 166mm	429 × 261 × 167mm
Weight	5.2kg	
Warranty	12 months replacement or repair	12 months call-out

visit www.action.com/epson

DON'T FORGET YOUR CONSUMABLES

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
✂ Stylus Color 460	47-08-41	57.19	58.49	58.14	57.79
Stylus Color 460 & Epson Cover Plus	06-53-69	87.95	89.95	89.41	88.87
NEW Stylus Color 670	53-01-53	72.35	73.99	73.55	73.10
NEW Stylus Color 670 & Epson Cover Plus	06-17-50	122.91	◗	124.95	124.20

ACCESSORY & CONSUMABLES	FOR USE WITH					
Action Printer Starter Kit	460/670	06-25-81	15.25	15.95	15.79	15.63
✂ Black Ink Cartridge	460/670	23-08-49	11.60	12.25	12.13	12.01
Colour Ink Cartridge	460/670	23-08-63	11.51	11.95	11.83	11.71
A4 Photo Quality Paper	460/670	41-13-83	5.97	6.25	6.19	6.13

OTHER ITEMS

FOR ORIGINAL INKJET SUPPLIES SEE PAGES 960–967
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR INKJET PRINTER ACCESSORIES SEE PAGE 397

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

INKJET PRINTERS – COLOUR

EPSON®

The **EPSON Stylus Color 760** offers a new improved design for quieter printing and provides home and office users with genuine ground breaking performance, thanks to the very latest developments in 4-colour inkjet technology featuring EPSON's unique PerfectPicture Imaging System. Outstanding 1440dpi resolution and PhotoReal colour will deliver the most striking presentations, reports and newsletters.
The Stylus Color 760 incorporates the latest development on EPSON's award-winning Piezo inkjet technology – EPSON Advanced MicroPiezo. The Stylus Color 760 includes support for the Universal Serial Bus, supported by Microsoft Windows 98 and Apple Mac.
The **Stylus Color 760 Transparent Blue** is the ideal companion for both Mac and PC owners. Sharing the same specifications as the Stylus Color 760 it looks great any home or office setting. Also available are optional multi-coloured lids.



47-70-32

EPSON COVERPLUS

Page 32

PRQ PHOTO REPRODUCTION QUALITY

visit www.action.com/epson

Model	Stylus Color 760
Interface	Bi-directional Parallel (IEEE 1284), USB
Cables	See pages 569-575
Emulation	EPSON ESC/P2 and raster graphics mode, EPSON remote
Resolution	1440 × 720dpi
Print Speed	7ppm mono, 3.6ppm colour
Dimensions (W × D × H)	450 × 269 × 175mm
Weight	5.8kg
Warranty	12 months EPSON replacement or repair

EPSON PerfectPicture Imaging System

DON'T FORGET YOUR CONSUMABLES

DESCRIPTION		CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Stylus Color 760		47-70-32	102.28	▶	102.95	102.69	✂
Stylus Color 760 & Epson Cover Plus		06-17-36	155.37	▶	157.95	157.00	
Stylus Color 760 (Blueberry iMac)		53-01-15	111.11	▶	112.95	112.27	NEW
ACCESSORIES & CONSUMABLES	**FOR USE WITH**						
Action Printer Starter Kit	760	06-25-98	17.16	17.95	17.77	17.59	
A4 photo quality glossy film	760	41-13-90	18.11	18.95	18.76	18.57	
Colour Ink Cartridge	760	23-08-63	11.51	11.95	11.83	11.71	

OTHER ITEMS

FOR ORIGINAL INKJET SUPPLIES SEE PAGES 960–967
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR INKJET ACCESSORIES SEE PAGE 397

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶ Save £££'s!
▶▶ Check live stock
▶▶ Track order status

NEW item on this page

INKJET PRINTERS – COLOUR

EPSON®

39-61-41



EPSON COVERPLUS

Page 32

The **EPSON Stylus Photo 870** is the perfect product for photo enthusiasts but is also ideal as a general purpose home or small office printer. The Stylus Photo 870 guarantees in excess of 10 years light fastness for images printed on EPSON Premium glossy Photo paper or Matte Paper Heavyweight.

FEATURES:

- 9ppm black and 8.8ppm colour printing speeds.
- Paper roll holder as standard.
- Win 95/98, NT 4.0 and iMac, G3 and G4

39-61-54

NEW!



The **EPSON Stylus Photo 875DC** is the perfect product for photo enthusiasts and will appeal to digital camera users who also want the best print quality from their photos. The Stylus Photo 875DC is supplied with a built-in PCMCIA card reader.

FEATURES:

- PCMCIA card slot.
- 9ppm mono and 8.8ppm colour printing speeds.
- Ultra Micro Dot — 4pl droplets combined with 6 colour technology for true photographic quality.
- Win 98 & iMac, G3 and G4 compatible via USB interface.

Model	Stylus Photo 870	Stylus Color 875DC
Columns	A4	
Interface	Parallel, Centronics IEEE-1284, USB	USB
Cables	See pages 569–575	
Emulation	EPSON ESC/P Raster	
Resolution	1440 × 720dpi	
Mono Print Speed	9ppm	
Colour Print Speed	8.8ppm	
Paper Handling	100 sheets	
Dimensions (W × D × H)	470 × 285 × 175mm	480 × 285 × 195mm
Weight	5.6kg	6.4kg
Warranty	12 months EPSON replacement or repair	

DON'T FORGET YOUR CONSUMABLES

visit www.action.com/epson

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	Stylus Photo 870	39-61-41	174.06	▶	176.95	175.89
	Stylus Photo 870 & Epson Cover Plus	06-86-64	229.15	▶	232.95	231.55
NEW	Stylus Photo 875DC	39-61-54	238.99	▶	242.95	241.49
NEW	Stylus Photo 875DC & Epson Cover Plus	06-86-99	295.06	▶	299.95	298.15
	ACCESSORIES & CONSUMABLES — **FOR USE WITH**					
NEW	Action Printer Starter Kit — Stylus Photo 870/875DC	04-18-29	15.99	17.95	17.41	16.89

OTHER ITEMS

FOR ORIGINAL INKJET SUPPLIES SEE PAGES 960–967
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR OFFICE PRODUCTS SEE PAGES 397

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

INKJET PRINTERS – COLOUR

EPSON®



The **EPSON Stylus Color 860** really meets the needs of the SME, SoHo and stand-alone corporate users who are now using more and more colour in their everyday work. The EPSON Stylus Color 860 feature Photo Enhance 4 enhancing the quality of low resolution images.

FEATURES:

- Print speeds of up to 9ppm mono & up to 8.5ppm colour.
- High quality 1440dpi 4-colour printouts.
- Parallel and USB interfaces as standard.
- Win 3.1, 95, 98, NT 4.0 & Mac drives.
- Optional Network server for multiple network environments.

Visit www.action.com/epson

EPSON COVERPLUS

Page 32



The **EPSON Stylus Color 900** is an A4 printer with faster print speeds and improved EPSON Ultra MicroDot. Targeted at the business users, standalone or networked groups. It is specially designed for colour network printing incorporating Ethernet I/F as standard. In addition the EPSON Stylus Color 900 has excellent connectivity, with parallel/USB/Mac Serial as standard.

FEATURES:

- 12.6ppm mono, 12.2ppm black and colour text.
- EPSON Ultra MicroDot – the world's smallest ink droplet in black and colour.
- 1400dpi printing on plain paper.
- EPSON PhotoEnhance 3 for Instant Image Enhancer.
- Parallel, USB, Mac serial, Ethernet interface.
- Win 3.1/95/98, NT 4.0, DOS & Mac.

Model	Stylus Color 860	Stylus Color 900
Columns	A4	
Interface	Parallel and USB	Centronics Type B IEEE-parallel, Mac serial (RS-423), USB
Cables	See pages 569-575	
Emulation	Epson ESC/P2 Raster, Epson Remote	Epson ESC/P2 IBM×24E, Epson Remote
Resolution	1440dpi	1440×720dpi
Mono Print Speed	9ppm	12ppm
Colour Print Speed	8.5ppm	11.5ppm
Paper Handling	100 A4 sheets cut sheet feeder	Friction feed with page feeder – 100 sheets (A4)
Dimensions (W×D×H)	450×269×175mm	475×313×191mm
Weight	6kg	8.4kg
Warranty	12 months replacement or repair	12 months return-to-base

DON'T FORGET YOUR CONSUMABLES

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Stylus Color 860	47-94-87	131.29	➧	132.95	132.70
Stylus Color 860 & Epson Cover Plus	06-70-34	196.73	➧	199.99	198.79
Stylus Color 900	49-41-80	205.61	➧	206.95	206.43
Stylus Color 900 & Epson Cover Plus	06-62-57	293.09	➧	297.95	296.16
Stylus Color 900N	49-41-97	352.65	➧	354.95	354.06
Stylus Color 900N & Epson Cover Plus	06-62-64	442.61	➧	449.95	447.25
ACCESSORIES	**FOR USE WITH**				
Action Printer Starter Kit	Stylus 860	06-25-98	17.16	17.95	17.77	17.59
Action Printer Starter Kit	Stylus 900	06-63-74	20.02	20.95	20.74	20.53

OTHER ITEMS

FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR GUIDE TO INKJET PRINTERS SEE PAGE 374
FOR OFFICE PRODUCTS SEE PAGES 459–540

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

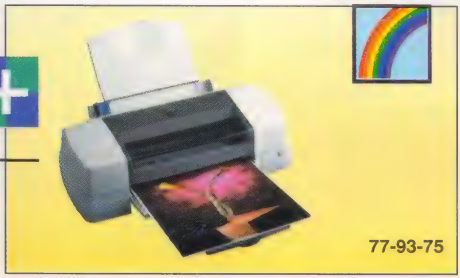
INKJET PRINTERS – COLOUR

EPSON®



EPSON COVERPLUS

Page 32



The **EPSON Stylus Color 1160** is targetted at corporate, SME, SoHo users that require larger sized output and entry-level design houses. The EPSON Stylus Color 1160 combines EPSON's 1440dpi Micro Piezo printhead and four dual-cartridge system, with print speeds of up to 9ppm mono and up to 8ppm colour.

FEATURES:

- A3+ printing capability.
- High quality 1440dpi 4-colour printouts.
- Print speeds of up to 9ppm mono and up to 8ppm colour.
- Parallel, Serial, USB interfaces.
- Win 3.1, 95, 98, NT 4.0 and Mac drivers.

The **EPSON Stylus Photo 1270** is a high quality A3+ printer ideal as a dedicated Photo Printer or for the everyday over size printing requirements of photographers, business users and home enthusiasts. True Photo-Quality performance comes as standard without the need for additional upgrades, while printing on plain paper has been improved even further.

FEATURES:

- 9ppm black and 8.8ppm colour print speeds.
- Ultra Micro Dot – 4pl droplets combined with 6 colour technology for true photographic quality.
- iMac, G3 & G4, Windows 95/98 and NT4.0 support straight from the box.
- Optional paper roll holder.

Model	Stylus Color 1160	Stylus Photo 1270
Columns	A3+	
Interface	Parallel, Serial, USB	Parallel Centronics IEEE-1284, USB
Cables	See pages 569-575	
Emulation	ESC/P Raster and EPSON Remote	EPSON ESC/P Raster
Resolution	1440dpi	1440×720dpi
Mono Print Speed	9ppm	
Colour Print Speed	8ppm	8.7ppm
Paper Handling	100 A4 sheets	
Dimensions (W×D×H)	578×286×175mm	609×311×175mm
Weight	7.5kg	8.4kg
Warranty	12 months EPSON replacement or repair	

Visit www.action.com/epson

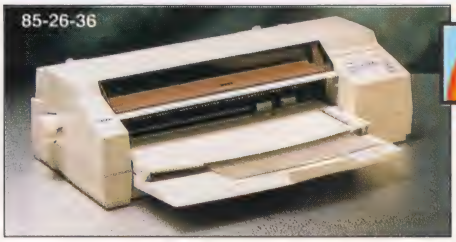
DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Stylus Color 1160	47-31-07	264.23	◗	265.95	265.29
Stylus Color 1160 & Epson Cover Plus	06-22-71	354.08	◗	359.95	357.79
✂ Stylus Photo 1270	77-93-75	291.12	◗	295.95	294.17
Stylus Photo 1270 & Epson Cover Plus	06-86-98	383.59	◗	389.95	387.61
ACCESSORY					
Action Printer Starter Kit for Stylus Photo 1270	04-18-22	27.67	28.95	28.66	28.37
Blank Ink Cartridge for Stylus Photo 1270	23-17-37	12.38	12.95	12.82	12.69
NEW Colour Ink Cartridge for Stylus Photo 1270	23-49-60	13.33	13.95	13.81	13.67

OTHER ITEMS

FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR GUIDE TO INKJET PRINTERS SEE PAGE 374
FOR OFFICE PRODUCTS SEE PAGES 459–540

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

INKJET PRINTERS – COLOUR EPSON®





The **EPSON Stylus Color 1520** provides the CAD/CAE and design market user with high speed colour or mono printing. It is designed for multi-platform compatibility and networking. It is capable of producing high quality images in mono and colour at **1440dpi**. It is a wide format printer (136 columns) that can print on paper up to A2 in size. It comes with a **FREE** 'Look your best Color Pak' software bundle for Mac and PC.

The **EPSON Stylus Color 3000** is a large format colour inkjet printer for high-quality reproduction of full colour A2 documents at 1440dpi. The advanced paper handling features of this printer enables printing on cut sheet paper from A6 to A2 in size via the built-in cut sheet feeder, banner paper via the banner paper holder and even continuous listing paper via the rear tractor unit.

Model	Stylus Color 1520	Stylus Color 3000
Columns	132	Full A2 width
Interface	Bi-directional parallel	IEEE-1284 bi-directional parallel interface
Cables	See pages 569–575	
Emulation	Epson ESC/P2, IBM X24e, Epson Remote	Epson ESCP2, IBM XL24E, Epson Remote
Resolution	1440 × 720dpi	
Letter Quality Speed	480cps	960cps (draft), 480cps (NLQ)
Fonts	5 Bitmapped, 4 Scalable	9
Buffer	64KB	
Paper Handling	100 Sheet A4	100 Sheet feeder for cut sheets up to A2
Dimensions (W × D × H)	664 × 504 × 202mm	810 × 565 × 240mm
Weight	15kg	22.5kg
Warranty	12 months return-to-base	

DON'T FORGET YOUR CONSUMABLES

EPSON COVERPLUS

Page 32

Visit www.action.com/epson

DESCRIPTION		CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Stylus Color 1520		85-26-36	312.91	➧	314.95	314.16
Stylus Color 1520 & Epson Cover Plus		05-53-78	408.18	➧	414.95	412.46
Stylus Color 3000		86-51-11	796.73	➧	809.95	805.09
Stylus Color 3000 & Epson Cover Plus		04-15-88	1117.28	➧	➧	1129.00
ACCESSORIES & CONSUMABLES	**FOR USE WITH**					
Action Printer Starter Kit	Stylus Color 1520	05-00-98	18.11	18.95	18.76	18.57
Action Printer Starter Kit	Stylus Color 3000	05-01-15	34.36	35.95	35.59	35.23
Black Ink Cartridge	Stylus Color 1520	22-72-54	12.97	13.45	13.32	13.18
Tri-Colour Ink Cartridge	Stylus Color 1520	22-72-47	12.19	12.75	12.62	12.50

OTHER ITEMS

FOR ORIGINAL INKJET SUPPLIES SEE PAGES 960–967
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR INKJET PRINTER ACCESSORIES SEE PAGE 397

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

INKJET PRINTERS – COLOUR



The **HP DeskJet 350C/CBi** is specifically designed to meet the needs of professionals on the move. It's a mobile printer which delivers desktop efficiency without the desk. The HP DeskJet 350C/CBi gives you the best of both worlds – mobility combined with desktop efficiency. Its robust design means that it won't let you down, even under the toughest working conditions. It has been drop-tested and shock-tested to ensure it can with stand hard knocks and drops. It also prints black and white output at up to 5ppm and colour at up to 2ppm. Despite those high speeds, it doesn't compromise on quality, producing 600 × 600dpi for black and white and 600 × 300dpi for vibrant colour images.

HEWLETT PACKARD Business Reseller Select

HELPLINE 08701 66 99 77

FEATURES:

- 30-page automatic sheet feeder for convenient, hands-free printing.
- Print speeds of up to 5ppm for black and 2ppm for colour.
- Professional quality black text at 600 × 600dpi and vibrant colour images at 600 × 300dpi.
- HP ColorSmart II – a HP technology.
- Infrared adapter for wireless printing anywhere, anytime (350CBi).
- Prints on a wide variety of media – from plain paper, transparencies and labels to HP brochures.
- Compatible with Windows 3.1x, 95, 98, 2000, NT 4.0, MS-DOS and Mac OS (through optional Mac USB or Mac serial cable).
- High-volume ink cartridges for improved cost-effectiveness.

HEWLETT PACKARD TAKE COVER Buy HP SupportPack
See page 432

Model	DeskJet 350C/CBi
Columns	A4
Speed	Up to 5ppm mono; up to 2ppm colour
Emulations	HP PCL Level 3 enhanced
Resolution	Up to 600 × 600dpi
Interfaces	IEEE 1284 with Plug & Play, Centronics parallel compatible
Cables	See pages 569–575
Buffer	512KB
Fonts	8 Built-in
Paper Handling	Manual feed, portable auto sheet feeder (up to 30 sheets)
Dimensions (W × D × H)	400 × 66 × 150mm
Weight	1.95kg
Warranty	12 months (upgradable to 3 years on-site with HP Support Pack)

DON'T FORGET YOUR CONSUMABLES

visit www.action.com/hp

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	DeskJet 350C	53-01-12	135.07	♦	135.95	135.61
NEW	DeskJet 350C & SupportPack	06-18-13	170.13	♦	172.95	171.91
NEW	DeskJet 350CBi	22-52-57	152.42	♦	154.95	154.02
NEW	DeskJet 350CBi & SupportPack	06-31-28	189.80	♦	192.95	191.79
	ACCESSORY & CONSUMABLES	**FOR USE WITH**				
NEW	Action Printer Starter Kit	350 Series 04-31-40	15.99	17.95	17.41	16.89

OTHER ITEMS
FOR ORIGINAL INKJET SUPPLIES SEE PAGES 971–975
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR INKJET ACCESSORIES SEE PAGE 397

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

INKJET PRINTERS – COLOUR

The **HP DeskJet 610C** offers great quality colour and black printing for all your home and study needs, it is easy to set up and use compact and reliable. You can print on a huge variety of media types and sizes. The HP DeskJet 610C is designed to take the guess work and hassle out of colour printing for the first time users.

FEATURES:

- 2.5ppm colour and 5ppm mono printing speed
- 600dpi resolution
- HP PhotoREt guarantees photo realism colour images even on plain paper
- HP ColorSmart II colour matching provides perfect colour automatically
- Handles a wide variety of paper sizes, from labels and postcards to A4
- Compatible with Microsoft Windows 3.1x, 9x, NT 4.0 and MS-DOS 3.3 or above
- User friendly installation and operation
- Compact, space-saving design that fits easily on practically any shelf
- Hassle free operation and low maintenance thanks to HP quality and reliability, backed by a one-year warranty

22-50-91



HEWLETT PACKARD
TAKE COVER
Buy HP SupportPack
See page 432

HEWLETT PACKARD
Summer Reseller

visit www.action.com/hp

Model	DeskJet 610C
Columns (paper size)	A4
Speed	Up to 2.5ppm colour, up to 5ppm mono
Resolution	600dpi
Interfaces	Centronics parallel, IEEE-1284 compliant
Cables	See pages 569-575
Buffer	512KB
Paper Handling	Up to 100 sheets
Dimensions (W×D×H)	415×405×199mm
Weight	5.2kg
Warranty	12 months (upgradable to 3 years with HP SupportPack

DON'T FORGET YOUR CONSUMABLES

HEWLETT PACKARD HELPLINE 08701 66 99 77

DESCRIPTION	FOR USE WITH	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DeskJet 610C		22-50-91	57.69	57.95	57.89	57.83
DeskJet 610C & SupportPack		06-27-75	89.18	89.99	89.77	89.54
ACCESSORIES & CONSUMABLES						
Action Printer Starter Kit	DJ610C	04-08-51	48.88	42.45	42.03	41.61
Black Ink Cartridge	DJ610C	23-17-65	18.59	19.45	19.26	19.06
Tri-colour Ink Cartridge	DJ610C	21-80-36	17.92	18.75	18.56	18.38
Photo Ink Cartridge	DJ610C	22-53-66	19.29	19.95	19.75	19.55

OTHER ITEMS

FOR ORIGINAL INKJET SUPPLIES SEE PAGES 971–975
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR INKJET ACCESSORIES SEE PAGE 397

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

INKJET PRINTERS – COLOUR



HEWLETT PACKARD
TAKE COVER
See page 432
HEWLETT PACKARD
Business Reseller
HEWLETT PACKARD HELPLINE
08701 66 99 77

The **HP DeskJet 840C** is the ideal colour inkjet printer for all home printing projects. It combines excellent print quality – photo as well as text – compact design, quiet operation, ease of use and HP reliability. The HP DeskJet 840C has optional Colour Printer Doors available in five colours: Strawberry, Blueberry, Grape, Lime or Tangerine.

FEATURES

- Excellent photo-quality with improved HP PhotoREt II Precision Technology.
- Sharp black text and vibrant colour graphics on all papers.
- Alternative 600 × 1200dpi mode using HP Photo Paper.
- Up to 8ppm black, 5ppm colour.
- Great results, even on plain paper.
- Flexible connectivity with built-in USB and parallel port — also supports USB Macintosh.
- Easy to set-up and operate.
- Space-saving front loading paper feed.
- Win 98/95/3.1, Windows 2000 Professional, NT 4.0, DOS, USB-connect MAC.

Model	DeskJet 840C
Columns	A4
Interfaces	IEEE-1284, USB (Windows 98 and USB-Connect Macintosh)
Cables	See pages 569–575
Resolution	600 × 1200dpi
Mono Print Speed	8ppm
Colour Print Speed	1.4ppm
Buffer	2MB
Paper Handling	Up to 100 sheets
Dimensions (W × D × H)	446 × 355 × 185mm
Weight	5.66kg
Warranty	12 months

visit www.action.com/hp

DON'T FORGET YOUR CONSUMABLES

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DeskJet 840C	77-83-43	76.99	77.69	77.50	77.30
DeskJet 840C & SupportPack	06-15-22	112.09	◗	113.95	113.27
ACCESSORIES & CONSUMABLES — **FOR USE WITH**					
Action Printer Starter Kit — 840C	06-62-55	36.58	37.98	37.60	37.22
Black Ink Cartridge — 840C	21-80-43	15.45	17.15	16.98	16.81
HP Greeting Cards — 840C	41-28-32	4.86	5.45	5.29	5.13
HP Premium Transparency Film — 840C	41-07-79	10.65	11.95	11.59	11.24

OTHER ITEMS
FOR ORIGINAL INKJET SUPPLIES SEE PAGES 971–975
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR INKJET ACCESSORIES SEE PAGE 397

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

INKJET PRINTERS – COLOUR



www.action.com/hp

The **HP DeskJet 930C** combines the very best in HP inkjet technology with an ultra-compact design – ideal for small work spaces. From stunning photo printouts to outstanding text and graphics, this quick and easy to use printer is a superb all-rounder for home and home-office use.

The **HP DeskJet 950C** is designed for people who frequently print high-quality photo images, this advanced printer has two paper trays allowing you to effortlessly print 10×15cm photo images without switching paper. Featuring a high performance print engine and numerous smart features this is the perfect printer for photo-intensive applications.

Model	DeskJet 930C	DeskJet 950C
Columns	A4	
Speed	9ppm mono; 2.9ppm colour	11ppm mono; 2.9ppm colour
Resolution	2400×1200dpi	
Interfaces	IEEE-1284, USB	
Cables	See pages 569–575	
RAM	4MB	
Paper Handling	Up to 100 sheets	
Dimensions (W×D×H)	440×250×196mm	440×370×196mm
Weight	5.7kg	5.9kg
Warranty	12 months	

HEWLETT PACKARD HELPLINE 08701 66 99 77

DON'T FORGET YOUR CONSUMABLES

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DeskJet 930C	53-00-75	109.61	➧	109.99	109.88
DeskJet 930C & SupportPack	06-12-61	142.58	➧	144.95	144.08
DeskJet 950C	22-52-21	148.43	➧	148.95	148.80
DeskJet 950C & SupportPack	06-08-54	181.93	➧	184.95	183.84

ACCESSORY & CONSUMABLES	FOR USE WITH					
Action Printer Starter Kit	930C/950C	04-87-94	29.36	32.95	31.96	31.00
Black Ink Cartridge	930C/950C	21-80-43	15.45	17.15	16.98	16.81
Tri-colour Ink Cartridge	930C/950C	23-17-79	20.50	21.45	21.24	21.02

OTHER ITEMS

FOR ORIGINAL INKJET SUPPLIES SEE PAGES 971–975
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR INKJET ACCESSORIES SEE PAGE 397

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

INKJET PRINTERS – COLOUR



The **HP DeskJet 895Cxi Pro Series Printer** is your business partner that does wonders for office productivity and, through its networking feature set, handles multiple users with ease. The HP DeskJet 895Cxi Professional Series offers printing performance to meet the business demands of a small office or workgroup with exceptionally fast print speeds of up to 10 pages per minute for black text and 6ppm for colour. Moreover, it is ideal for small workgroups by offering optional network connectivity via HP's JetDirect 170X servers. It features HP's award winning Photo Resolution Enhancement technology II. The result is a more vivid colour output, lighter tones and smoother graduations between tones without having to sacrifice print speed.

FEATURES:

- Up to 10ppm monochrome.
- 600dpi resolution.
- Improved PhotoRet II for Photo Quality.
- Networking features set allows handling multiple users.
- Easy "plug and play" installation and set up via USB.

HEWLETT PACKARD TAKE COVER
See page 432

Model	DeskJet 895Cxi Pro
Columns	A4
Interfaces	Centronics Parallel, 1284-Compliant, USB
Cables	See pages 569–575
Resolution	Up to 600dpi
Black Text Speed	10ppm Econofast, 5ppm normal, 3.8ppm Best
Colour Graphics Speed (full page)	2.8ppm Econofast, 1ppm normal, 0.3ppm Best
Fonts	8 Built-in
Paper Handling	Up to 100 sheets
Dimensions (W × D × H)	446 × 185 × 355mm
Weight	5.5kg
Warranty	12 months off-site (upgradable to 3 years on-site with HP SupportPack)

HEWLETT PACKARD HELPLINE 08701 66 99 77

visit www.action.com/hp

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DeskJet 895Cxi Pro	25-98-99	147.98	➧	148.95	148.58
DeskJet 895Cxi Pro & SupportPack	06-34-18	181.93	➧	184.95	183.84
ACCESSORY & CONSUMABLES					
Action Printer Starter Kit	05-01-46	27.67	28.95	28.66	28.37
Large Black Inkjet Cartridge	21-80-43	15.45	17.15	16.98	16.81
Bright White Inkjet Paper (200 sheets)	41-19-43	4.25	4.45	4.41	4.36
Premium Coated Inkjet Paper	40-42-42	10.47	10.95	10.84	10.73

DON'T FORGET YOUR CONSUMABLES

OTHER ITEMS
FOR ORIGINAL INKJET SUPPLIES SEE PAGES 971–975
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

INKJET PRINTERS – COLOUR

The **DeskJet 970Cxi Professional Series** printer is the next generation printing platform which features the very best in inkjet printing technology. It is designed for demanding professional-level home and office users who want the very best in print quality, speed and versatility. Its next generation printing platform combines the leading-edge HP inkjet technology with advanced yet easy-to-use features to deliver unprecedented all-round performance in a personal inkjet printer. HP's PhotoREt III delivers ultimate photo quality.

FEATURES:

- Up to 12ppm black, 10ppm colour.
- Network capable with optional HP JetDirect print server.
- Compact innovative design and quiet operation.
- Easy installation.
- Supports DOS, Windows 3.x, Windows 95/98, Windows NT 4.0, Windows 2000 Professional and Mac OS 8.1 and higher.
- High capacity easy loading 150 sheet paper tray.
- Alternative 2400 × 1200dpi mode on photo paper – overall image quality – similar to PhotoREt III.
- Unique automatic two-sided printing module.



visit www.action.com/hp

HEWLETT PACKARD
TAKE COVER
Buy HP SupportPack
See page 432

Model	DeskJet 970Cxi Professional Series
Columns	A4
Interfaces	IEEE-1284, Universal Serial Bus (Windows 98 and USB-Connect Macintosh)
Cables	See pages 569–575
Resolution	Up to 600dpi; alternative 2400 × 1200dpi mode on photo paper
Black Text Speed	Up to 12ppm
Colour Graphics Speed	Up to 2.9ppm (full colour)
RAM	4MB
Fonts	8 built-in
Paper Handling	Up to 150 sheets
Dimensions (W × D × H)	440 × 370 × 196mm
Weight	5.85kg
Warranty	12 months on-site (upgradable to 3 years with HP SupportPack)

HEWLETT PACKARD HELPLINE 08701 66 99 77

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
DeskJet 970Cxi Pro	47-22-66	183.75	◗	184.95	184.49	✂
DeskJet 970Cxi Pro & SupportPack	06-17-90	221.28	◗	224.95	223.60	✂
ACCESSORY & CONSUMABLES	**FOR USE WITH**					
Action Printer Starter Kit	970Cxi	04-26-04	21.34	23.95	23.23	22.53
Black Ink Cartridge	970Cxi	21-80-43	15.45	17.15	16.98	16.81
Tri-Colour Ink Cartridge	970Cxi	23-17-79	20.50	21.45	21.24	21.02

DON'T FORGET YOUR CONSUMABLES

OTHER ITEMS

FOR ORIGINAL INKJET SUPPLIES SEE PAGES 971–975
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR INKJET PRINTER ACCESSORES SEE PAGE 397

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

INKJET PRINTERS – COLOUR



HEWLETT PACKARD
TAKE COVER
Buy HP SupportPack
See page 432



The **HP DeskJet 1120C Pro** is the versatile business printer with photo quality and wide format capabilities at an affordable price. It features HP PhotoRet II for photo realistic printouts printing in colour or mono. It also comes with Windows 3.1, Windows 95 and Windows NT 4.0 drivers and an optional Mac connections via InfoWave products. It offers an extensive media flexibility: from 4 × 6″ postcards to 11 × 17″ documents.

The **HP DeskJet 1220C** is the high performance wide format (up to A3+) colour printer for all business needs. With PhotoREt III technology, offers you the ability to create professional documents – from A6 up to A3+ and to use a variety of paper stocks. Businesses now have the freedom to effectively produce a whole range of literature in-house, such as brochures, business cards, leaflets and posters.

Model	DeskJet 1120C Pro	DeskJet 1220C
Columns	A4/A3 formats	A3+
Interfaces	Bi-directional, ECP IEEE 1284-compliant, parallel port	IEEE 1284, Centronics parallel, USB
Cables	See pages 569–575	
Resolution	Up to 600 × 600dpi	Up to 2400 × 1200dpi
Black Text Speed	6.5ppm	11ppm
Colour Graphics Speed	2ppm	2.9ppm
RAM	2MB	8MB
Fonts	26 Built-in Scaleable fonts	8 Built-in
Paper Handling	150 sheet input; 50 sheet output	
Dimensions (W × D × H)	579.1 × 380 × 223.6mm	592.3 × 381 × 592.3mm
Weight	9.4kg	10kg
Warranty	12 months limited (upgradable to 3 years on-site with HP SupportPack)	

HEWLETT PACKARD HELPLINE 08701 66 99 77

www.action.com/hp

DON'T FORGET YOUR CONSUMABLES

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DeskJet 1120C Pro	69-38-40	206.60	▶	207.95	207.43
DeskJet 1120C Pro & SupportPack	04-94-70	250.79	▶	254.95	253.42
DeskJet 1220C	22-52-30	264.23	▶	265.95	265.29
DeskJet 1220C & SupportPack	06-12-63	300.96	▶	305.95	304.11

ACCESSORY & CONSUMABLE	FOR USE WITH					
Action Printer Starter Kit	DeskJet 1120C	04-96-90	23.85	24.95	24.70	24.45
HP Black Ink Cartridge	DeskJet 1120C	21-80-43	15.45	17.15	16.98	16.81
Tri-colour Ink Cartridge	DeskJet 1120C	23-17-20	19.30	20.85	20.64	20.44

OTHER ITEMS

FOR ORIGINAL INKJET SUPPLIES SEE PAGES 971–975
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR INKJET PRINTER ACCESSORIES SEE PAGE 397

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

INKJET PRINTERS – COLOUR

The **HP 2000C** is the ideal printer for people in sales, marketing and management who need fast high impact colour documents to sell their ideas or projects to important or external customers. The HP 2000C can be upgraded with a HP JetDirect external print server and a second paper tray. Offering breakthrough colour print speed, reduced operating costs, added functionality for office flexibility and brilliant image quality even on plain paper, the HP 2000C increases the effectiveness of every business while improving its images.



HEWLETT PACKARD
TAKE COVER
Buy HP SupportPack
See page 432

FEATURES:

- Up to 5 times faster than the HP DeskJet 690C printer.
- Comparable to colour laser speed on full page colour documents.
- Professional black text at up to 10ppm.
- 250-sheet accessory paper tray increases media capacity up to 400 sheets or can be used as second media source.
- Connect to a host computer or directly to a network with a HP JetDirect external print server.
- Compatible with Microsoft Windows 3.1x, Windows 95/98 and Windows NT 4.0.
- Prints brilliantly on plain paper as well as special papers, transparencies, labels and envelopes.

HEWLETT PACKARD HELPLINE
08701 66 99 77

Model	HP 2000C
Columns	A4
Interfaces	Centronics parallel, IEEE
Cables	See pages 569–575
Emulations	HP PCL 3 enhanced
Resolution	600dpi mono, PhotoREt II colour
Mono Print Speed	Up to 10ppm
Colour Print Speed	Up to 4ppm
Fonts	160 TrueType, 35 PostScript, 9 built-in bitmap
RAM	2MB
Paper Handling	Up to 150 or single sheet only, 250-sheet accessory paper tray (optional)
Dimensions (W×D×H)	511×601×401mm
Weight	15.4kg
Warranty	12 months return to HP (upgradable to 3 years on-site with HP SupportPack)

HEWLETT PACKARD Business Reseller

visit www.action.com/hp

DON'T FORGET YOUR CONSUMABLES

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
2000C	25-80-10	226.47	➧	227.95	227.38
2000C & SupportPack	06-28-66	312.76	➧	317.95	316.04
ACCESSORY & CONSUMABLE	**FOR USE WITH**				
Action Printer Starter Kit	HP 2000C	06-31-02	23.85	24.95	24.70	24.45

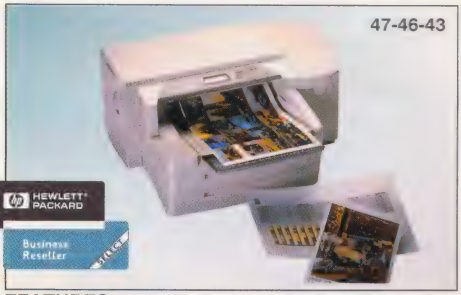
OTHER ITEMS

FOR ORIGINAL INKJET SUPPLIES SEE PAGES 971–975
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR INKJET PRINTER ACCESSORIES SEE PAGE 397

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

INKJET PRINTERS – COLOUR



FEATURES:

- Reduced operating costs – four individually replaceable high-capacity ink cartridges and long-life print heads.
- Up to 9.5 pages per minute mono and up to 7.5 pages per minute colour.
- Network capable with an optional HP JetDirect MIO Internal Print Server.
- Compatible with Windows 3.1x, 95, 98, NT 4.0 and MS-DOS.
- HP's exclusive PhotoREt II colour layering technology.
- Two media trays, 150/250 sheets, with media size sensors.

The **Hewlett-Packard 2500C/CM Professional Series** colour printers are the next generation inkjet printer for small business workgroups of between 5-10 users. Optimised for the network and designed for the workgroup the HP 2500C supports all major operating systems, network environments and protocols. The HP 2500C Professional Series colour printers deliver great speed, high-impact colour at a low cost per page, versatile media handling, network-optimised performance and a 1 year on-site warranty.

HP 2500C/CM – What's the Difference?

The **HP 2500C** with 4MB is a network-capable printer for Windows and DOS. The printer is designed to leverage existing hardware investments with the flexibility to insert a HP MIO card, upgradable with Adobe PostScript 3 and memory up to 76MB RAM when you need it.

The **HP 2500CM** with 12MB RAM and Adobe Postscript 3 is a network-ready printer for Macintosh, Windows and DOS. This printer is designed for immediate workgroup connectivity with a built-in HP MIO print server, true Adobe PostScript 3 and upgradable to a total of 76MB RAM for maximum document portability.

visit www.action.com/hp

Model	2500C	2500CM
Columns (paper size)	A4	
Interfaces	Centronics Parallel, IEEE 1284 Compliant Mio slot	HP JetDirect MIO Print server
Cables	See pages 569–575	
Printer Languages	Enhanced HP PCL 3e, Windows Driver Support for Windows 3.1x, 95, 98, NT 4.0	Adobe PostScript 3
Resolution	Mono: 600 × 600dpi	
Mono Print Speed	Up to 9.5ppm (A4)	
Colour Print Speed	Up to 7.5ppm (A4)	
Fonts	110 TrueType via HP FontSmart	
RAM	4MB (Max 76MB)	12MB (Max 76MB)
Paper Handling	1 × 150, 1 × 250	
Dimensions (W × D × H)	685 × 610 × 337mm	
Weight	26.5kg	
Warranty	12 months on-site (Upgradable to 3 years-on-site with HP SupportPack)	

HEWLETT PACKARD HELPLINE 08701 66 99 77

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
2500C	47-46-43	665.61	➧	669.95	668.28
2500C & SupportPack	06-45-34	904.94	➧	919.95	914.43
2500CM	49-28-07	924.61	➧	939.95	934.31
2500CM & SupportPack	06-59-04	1157.81	➧	➧	1169.95
ACCESSORY					
Action Printer Starter Kit	06-31-02	23.85	24.95	24.70	24.45

HEWLETT PACKARD
TAKE COVER
Buy HP SupportPack
See page 432

OTHER ITEMS
FOR ORIGINAL INKJET SUPPLIES SEE PAGES 971–975
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR INKJET PRINTER ACCESSORIES SEE PAGE 397

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DESKJET & PAINTJET INKJET PRINTER ACCESSORIES

hp invent

HEWLETT PACKARD Business Reseller

DESCRIPTION	FOR USE WITH	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
8MB RAM Upgrade+	DJ-1200/1600	92-16-77	210.42	♦	217.95	215.77	
16MB RAM Upgrade	DJ-1200/1600	13-41-34	149.60	♦	154.95	153.40	✂
2MB RAM Upgrade	DJ-1200/1600	93-80-79	31.49	32.95	32.62	32.29	
Angled Custom Parallel Cable	DJ-310/320/340	91-90-12	9.51	9.95	9.85	9.75	
European Rechargable Battery	DJ-310/320/340	74-74-80	23.85	24.95	24.70	24.45	✂
Carry Case	DJ-310/320/340	71-60-40	41.05	42.95	42.52	42.10	✂
DeskJet Utility Stand (3rd party)	DeskJets	95-29-14	10.04	10.50	10.40	10.29	
HP Adobe PostScript Upgrade	HP2500C/M	22-17-59	135.12	♦	139.95	138.55	
Macintosh Serial Cable	690, 850, 820, 870, 1200, 1600	98-46-14	25.76	26.95	26.68	26.41	NEW

BUBBLEJET RANGE INKJET PRINTER ACCESSORIES

Canon

50 Sheet A4 Feeder (White)	BJ-10/SX (W)	71-60-95	38.18	39.95	39.55	39.15	
Portable Kit (Black)	BJC-80/BJC-85	41-72-91	64.95	67.95	67.27	66.60	
Scanner Cartridge (Windows 95 compatible only)	BJC2000, 4300, 4400 & 4650	89-73-16	40.10	41.95	41.53	41.12	
AC Adaptor	BJC-80/BJC-85	22-34-92	38.18	39.95	39.55	39.15	
Rechargable Lithium ion Battery	BJC50	77-83-46	42.01	43.95	43.51	43.08	✂
Universal AC Mains Adaptor	BJ30/70, BJC-80/ BJC-85	77-48-55	47.74	49.95	49.45	48.96	
100 Sheet Auto Feeder (Bin 1)	BJC-5500	86-69-69	79.88	82.95	82.12	81.30	
100 Sheet Auto Feeder (Bin 2)	BJC-5500	86-69-83	65.44	67.95	67.27	66.60	
Serial Interface Board	BJC-5500	86-72-36	63.04	65.95	65.29	64.64	
Auto Sheet Feeder	BJC-50	26-06-75	34.88	36.49	36.13	35.76	
Scanner Cartridge (Windows 95/98, NT4.0 & Mac OS 8.1 compatible)	BJC-6000/6100	31-35-75	42.96	44.95	44.50	44.06	
USB/Parallel Convertor Cable	BJC-6000/7100	90-52-89	45.83	47.95	47.47	47.00	✂

STYLUS RANGE INKJET PRINTER ACCESSORIES

EPSON®

0KB Serial Interface	Stylus 850/1520/3000	94-19-87	27.67	28.95	28.66	28.37
Serial Interface	Stylus 850/1520/3000	82-41-21	71.64	74.95	74.20	73.46
Ethernet Interface	Stylus 850/1520/3000	82-41-38	183.39	♦	189.95	188.05
250 sheet lower paper unit	Stylus Pro 5000	25-97-89	357.18	♦	369.95	366.25
250 sheet additional paper tray	Stylus Pro 5000	25-97-96	99.40	♦	102.95	101.92

OTHER ITEMS

FOR HP CONSUMABLES SEE PAGES 971–981
FOR CANON CONSUMABLES SEE PAGES 952–958
FOR EPSON CONSUMABLES SEE PAGES 960–970

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PLOTTERS



41-67-35

www.action.com/hp

The **HP DesignJet 430** is an affordable large-format printing for individuals and small businesses. The DesignJet 430 is ideal for line drawings, presentations, signs and comps providing maximum flexibility. Features include: 600dpi addressable black, 2 by 3 foot printing, convenient and easy to use and optional colour upgrade.

The **HP DesignJet 450C** is an affordable large-format printing for individuals and small businesses. Is the ideal printer for line drawings, presentations, signs and comps, providing maximum flexibility for all kinds of jobs.

The **HP 488CA** is an affordable large-format printer for individuals and small business. The combination of the HP DesignJet 488CA printer's software RIP, with Apple ColorSync and Adobe PostScript 3TM means reliable and consistent offset-quality colour output every time.

The **HP DesignJet 750** is a general-purpose colour large-format printing for networked groups. It is ideal for line drawings, layouts, illustrations and presentations. Features include: true 600dpi black, accepts a wide variety of media and HP JetDirect interface.

Model	DesignJet 450C	488CA	DesignJet 750
Print Technology	Colour InkJet – 4 cartridges (C,M,Y,K)		Monochrome InkJet
Print Speed	Fast mode: 1.5 minutes; Normal mode: 4 minutes; Best mode: 18 minutes		Fast mode: 1.5 minutes; Normal mode: 4 minutes; Best mode: 8 minutes
Paper Size	A1 Models: A4-A1 sheets; A1 rolls optional. A0 models: A4-A1, A0 rolls optional		A1 Models: A1 rolls; A4-A1 sheets. A0 models: A0 rolls, A4-A0 sheets
Maximum Paper Length	Sheet: 1.625m (64") Roll: 15.2m (50 feet)		Sheet: 1.62m (64") Roll: 45.7m (150 feet)
Media Handling	Sheetfeed	Sheetfeed and optional rollfeed/cutter	Sheetfeed and rollfeed, automatic cutter, media bin
Resolution	Black – 600dpi addressable, Colour – 300dpi		Black – 600dpi, Colour – 600dpi (line drawings), 300dpi (images)
Memory	4MB (upgradable up to 36MB)		4MB (upgradable up to 68MB)
Interfaces	IEEE-1284 compatible RS232C. Optional connectivity via JetDirect		IEEE-1284 compatible, RS232C, internal HP JetDirect Network card (standard)
Dimensions (W×D×H)	A1 models: 1031×231×322mm A0 models: 1329×231×332mm	A1 models: 1041×227×330mm A0 models: 1321×227×330mm	A1 models: 1070×680×1200mm A0 models: 1370×x680×1200mm
Warranty	12 months on-site		
Weight	31kg	34kg	60kg

HEWLETT PACKARD HELPLINE 08701 66 99 77

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DesignJet 430 – A0	24-31-11	1677.41			1695.00
DesignJet 430 Mono – A1	25-67-99	1067.80			1079.00
DesignJet 450C – A1	41-67-35	1523.03			1539.00
DesignJet 450C – A0	24-12-54	1928.77			1949.00
DesignJet 488CA – A0	38-30-20	2274.48			2279.95
DesignJet 488CA – A1	37-00-29	1959.40			1979.95
DesignJet 750C – A1	29-45-24	3193.88			3199.00
DesignJet 750C – A0	41-68-07	3842.84			3849.00

OTHER ITEMS

FOR PARALLEL PRINTER CABLES SEE PAGES 569–575

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PLOTTERS

The **HP DesignJet 755CM** is a colour, plug-and-play PostScript printer for graphic professional and workgroups. The **HP DesignJet 1000 Series** are the fastest large-format printers in the HP DesignJet range. They are ideal for engineering line drawings, maps, renders and presentations. The HP DesignJet 1000 Series contain best line quality from any HP DesignJet printer, with true 600dpi colour and 1200dpi addressable for precise black lines. They produce brilliant, near-photo-quality images with 600dpi colour resolution. The HP DesignJet 1000 Series can print A1/D-size colour line drawings in less than one minute.
The **HP DesignJet 2000CP** is a colour printer for use with external RIPs for graphic professionals.
The **HP DesignJet 2500CP** is a colour, professional, photo-quality large-format, plug-and-play PostScript printer for graphic professionals.



HEWLETT PACKARD Business Reseller

www.action.com/hp

Model	DesignJet 755CM	DesignJet 1050/1055CM	DesignJet 2000CP/2500CP
Print Technology	Colour InkJet	Colour Thermal Inkjet	
Print Speed	Fast mode: 1.5 minutes, Normal mode: 4 minutes, Best mode: 8 minutes	A1/D-size colour drawing in 45 seconds	Fast mode: 8 minutes, Normal mode: 15 minutes, Best mode: 37 minutes
Media Handling	Sheetfeed and rollfeed, automatic cutter, media bin	Dual path for sheet and roll feed, automatic cutter	Roll and cut sheet
Resolution	Black – 600dpi, Colour 600dpi (line drawings), 300dpi images	1200dpi addressable black line drawings, 600dpi colour	600 × 600dpi
Memory	72MB	16MB (1050C), 32MB (1055CM) both upgradable to 128MB	8MB (2000CP), 20MB (2500CP) both upgradable to 68MB
Interfaces	IEEE-1284 compatible, RS232C, Internal HP JetDirect Network Card (standard)	IEEE-1284 (including ECP), HP JetDirect 600N (EIO) 10/100Base-TX internal print server	Bi-tronics ECP (Centronics), JetDirect Network interface card (standard on DesignJet 2500CP)
Dimensions (W × D × H)	A1 models: 107 × 68 × 120cm, A0 models: 137 × 68 × 120cm	1560 × 735 × 1225mm	1575 × 686 × 1295mm
Warranty	12 months on-site		
Weight	60kg	157kg	83kg/100kg

HEWLETT PACKARD HELPLINE 08701 66 99 77

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DesignJet 755CM	47-56-28	5195.00	➧	➧	5195.00
DesignJet 1050C (AO/E)	22-50-15	4625.30	➧	➧	4629.00
DesignJet 1055CM (AO/E)	12-08-91	6095.00	➧	➧	6095.00
DesignJet 2000CP	38-28-12	5495.00	➧	➧	5495.00
DesignJet 2500CP	88-58-78	6495.00	➧	➧	6495.00

OTHER ITEMS

FOR PARALLEL PRINTER CABLES SEE PAGES 569–575

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW item on this page

LABEL PRINTERS

Seiko Instruments Inc



The user friendly **Smart Label Printer** makes it easy to mix and match fonts, graphics and bar codes all on the same label. Easily prepare customised formats with your own company logo complete with a post office approved bar code that can get your mail delivered faster – all without the hassle of using standard printers.
With a single mouse click, SmartCapture and address instantly from applications like Word, Act, Outlook, Goldmine, Palm Pilot Desktop and WordPerfect – you'll never have to retype.

Model	Smart Label Printer 100	Smart Label Printer 200	Smart Label Printer 220
Description	Sharp text and high quality images, USB and serial connection		Sharp text and high quality images, Serial connection
Label print time	6 seconds per label		3 seconds per label
Label size	Up to 28mm wide	Up to 54mm wide	
Resolution	203dpi		
Bar codes	Code 39, UPC-A, UPC-E, 12/5, Code 128 Codabar, EAN-13		
Uses	Perfect for envelopes, file folders, bar codes and more	Same as SLP 100, plus packages, diskettes, Zip disks, name badges, 35mm slides, Rolodex card and more	Same as SLP 100/200 but with super fast printing
Power supply	6V DC		12V DC
Dimensions (W×D×H)	114×190×168mm		
Weight	0.50kg		
Warranty	12 months off-site		

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	Seiko Smart Label Printer 100	53-01-03	96.26	99.95	98.95	97.96
NEW	Seiko Smart Label Printer 200	12-11-50	138.08	◗	141.95	140.53
	Seiko Smart Label Printer 220	68-70-21	152.50	◗	157.95	156.37

LABELS	FOR USE WITH	SIZE (mm)	ROLL/ LABELS	CAT NO				
Standard, White	ALL	89×28	12×130	04-12-03	40.94	45.95	44.57	43.23
Standard, White	ALL	89×28	2×130	40-58-56	6.68	7.50	7.28	7.06
Standard, White	ALL	89×28	2×260	40-71-08	11.57	12.99	12.60	12.22
Shipping Labels	200/220	101×54	1×220	40-71-22	11.54	12.95	12.56	12.18
Coloured Labels	ALL	89×28	4×130 (4 Colours: blue, green, pink, yellow)	40-81-45	16.88	18.95	18.38	17.83
3½" Diskette Labels	200/220	70×54	1×320	40-71-15	11.54	12.95	12.56	12.18
Video Spine Labels	220	147×39	1×150	40-94-43	6.17	6.45	6.39	6.32
Video Top Labels	200/220	78×46	1×75	40-94-50	7.08	7.95	7.71	7.48

OTHER ITEMS

FOR LABEL MAKING SOFTWARE SEE PAGE 358
FOR FULL OFFICE EQUIPMENT RANGE SEE PAGES 461–509
FOR STATIONERY SEE PAGES 1018–1034

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

THERMAL TRANSFER PRINTERS — ZEBRA

With it's industrial strength 12-gauge steel frame, 300dpi (12 dots/mm) print resolution and ability to accommodate labels up to 6.6" (167.6mm) wide, the **170XiII** is ideal for tough compliance labelling needs and mission-critical environments. Printing at speeds up to 8" per second (203mm/sec), the 170XiII easily prints large numbers of AIAG, ODETTE, EAN-128 and other compliance labels.
The **Zebra 105Se** is an economical, high-quality barcode printer for general purpose labelling applications. It is one of the most versatile printers available, capable of meeting the needs of first-time or experienced users. With a variety of options, the 105Se can easily be configured to your requirements.
The **Stripe S400** is Zebra's lowest price, full size printer available offering dependable print performance for a variety of labelling applications including administrative office/healthcare related address. Features include increased DRAM memory for support of label formats up to 36", erasable and programmable flash firmware upgrades that do no require modification to printer electronics and an enhanced 32-bit processor for quicker label processing.



Model	170XiII	105Se	Stripe S400
Printing Method	Thermal transfer or direct thermal		
Print Speed	8.0"/sec	6.0"/sec	2.3 and 4"/sec
Resolution	300dpi	Up to 300dpi	203dpi
Interface	RS-232/422/485 serial port, Centronics compatible parallel port	Centronics parallel, RS-232 serial	
Cables	See pages 569-575		
Media Type	Continuous, die-cut or black mark	N/A	
Fonts	7 bitmap, 1 scalable		Standard bitmapped and 1 smooth font
Dimensions (W×D×H)	334.4×495×393.7mm	266.7×480×391mm	210×432×330mm
Weight	30.5kg	19.3kg	7.71kg

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
170XiII	22-52-93	2678.81	▶	▶	2699.00	NEW
105Se 8 d/mm serial 512K	12-11-79	1030.74	▶	▶	1049.00	NEW
105Se 8 d/mm parallel 512K	22-52-95	1030.74	▶	▶	1049.00	NEW
105Se 12 d/mm serial 1MB	12-11-80	1218.05	▶	▶	1249.00	NEW
105Se 12 d/mm parallel 1MB	37-00-67	1218.05	▶	▶	1249.00	NEW
105Se 6 d/mm serial 512K	53-78-55	1079.87	▶	▶	1099.00	NEW
105Se 6 d/mm parallel 512K	64-78-76	1079.87	▶	▶	1099.00	NEW
S400	77-83-66	582.69	▶	599.00	593.01	NEW

OTHER ITEMS

FOR PARALLEL PRINTER CABLES SEE PAGES 569–575

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▸▸Save £££'s!
▸▸Check live stock
▸▸Track order status

HP | LaserJet 4500 Series | Colour Printer

The HP Color LaserJet 4500 Family -

the complete high performance solution for printing in colour

The **HP Color LaserJet 4500 Series** printers deliver exceptional colour print quality right out of the box, in addition to offering the same overall reliability that you've come to expect from your HP monochrome printers.These printers are ideal for all your workgroup colour laser printing needs from creating marketing presentations to producing polished, easy-to-read financial statements to printing in-house training materials.

FEATURES:

- 4ppm for full colour
- 16ppm for black and white
- 600dpi engine with HP Image Resolution Enhancement technology (HP ImageREt 2400)
- HP Web JetAdmin network printer management software
- Up to 128MB memory capability

ONLY **£1484.05** +VAT
ONLINE 25-98-20

HP Color LaserJet 4500DN - Cat no: 25-98-44

- Paper input capacity 1 x 500, 1 x 250, 1 x 150 (A4 size)
- 64MB memory
- Duplexer
- Network ready

HP Color LaserJet 4500N - Cat no: 25-98-37

- Paper input capacity 1 x 250, 1 x 150
- 64MB memory
- Network ready

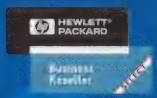
HP Color LaserJet 4500 - Cat no: 25-98-20

- Paper input capacity 1 x 250, 1 x 150
- 32MB memory
- Network capable



HEWLETT PACKARD HELPLINE 08701 66 99 77





HP | LaserJet 8550 | Colour Printer

invent

The HP Color LaserJet 8550 -

Creative colour printing efficiency for every business need

With the **HP Color LaserJet 8550**, you can print professional, compelling full colour sales material such as fliers, datasheets and A3 posters to send to your customers - with flexibility for short print runs where offset printing just isn't economical. The HP Color LaserJet 8550 enables you to control the print job, to make last minute changes and keep your deadlines.

HP Color LaserJet 8550GN - Cat no: 53-01-34

- 3.2GB hard disk enabling job retention and MOPying
- Automatic Duplex Unit
- Multi Purpose Tray for up to 100 sheets, plus 2 x 500 sheet trays
- 2,000 Sheet High Capacity Input Tray
- 300MHz processor
- 128MB total memory
- 10/100Base-TX Print Server

NEW!

HP Color LaserJet 8550DN - Cat no: 12-11-56

- 3.2GB hard disk enabling job retention and MOPying
- Multi Purpose Tray for up to 100 sheets, plus 2 x 500 sheet trays
- 2,000 Sheet High Capacity Input Tray
- 200MHz processor
- 64MB memory
- 10/100Base-TX Print Server

ONLY £2981.83 +VAT ONLINE 53-01-14

HP Color LaserJet 8550N - Cat no: 22-52-59

- 3.2GB hard disk enabling job retention and MOPying
- Multi Purpose Tray for up to 100 sheets, plus 2 x 500 sheet trays
- 200MHz processor
- 64MB memory
- Printer stand
- 10/100Base-TX Print Server



HP Color LaserJet 8550 - Cat no: 53-01-14

- Multi Purpose Tray for up to 100 sheets, plus 1 x 500 sheet tray
- 200MHz processor
- 32MB memory
- Printer Stand

HEWLETT PACKARD

TAKE COVER

HEWLETT PACKARD HELPLINE 08701 66 99 77

Lower prices on-line at action.com

GUIDE TO PAGE PRINTERS

HINTS AND TIPS FOR SUCCESSFUL LASER PRINTER PURCHASE

Which laser printer? – the choice is endless so take note of the hints and tips outlined below when making your laser printer purchase.

Before buying any type of laser printer you should first consider your organisation's requirements. This should relate to current working environment and workflow and take into consideration future requirements. This will enable you to build a list of key features which are important when considering the type of printer you should purchase and these can then be associated to the specifications of available printers.

LASER QUALITY

Laser printers offer sharper text and therefore higher quality documents can be produced. Resolution of up to 1200 dpi is now available, although for most general office purposes 600dpi is sufficient – remember graphics require higher resolution than text-based documents. Many printers offer software features that provide resolution enhancement – this is particularly beneficial in smoothing curves where large typefaces are used.

NETWORK NEEDS

Look for a built-in network interface (or the option to add one), matched your network type, in any printer you'll share over a LAN. Consider your future as well as your current network environment – if you are planning to upgrade from Ethernet to Fast Ethernet in the future, you'll need an interface which supports both. Even if the printer is not to be placed on a network now, it's worth choosing one which has the potential to upgrade in future. Even printers which are only to be used by one person can benefit from being attached to your network – this way the network administrator can manage all printing devices centrally.

PRINTER LIFETIME AND THROUGHPUT

It's important to consider how much demand your users will be placing on the printer, an under-specified machine may become overworked which may cause it to have faults. The move from physical to electronic exchange documents means that print volumes may rapidly increase – assume that your print volume will double during each year of the printer's operation and choose one with a monthly duty cycle high enough to accommodate this with ease.

FUTURE PROOFING

Really if you're an expanding business or department you should be looking for a printer which offers you a level of upgradability so you gain maximum benefit from your purchase. It's important to see if you can add on extra features such as extra paper trays, a duplex unit for double-sided printing, and sorter/collators now or at a later date as required, so that your initial investment is protected.

PROCESSING CONSIDERATIONS

Think twice before investing in a printer that offloads its processing chores onto the PC; for maximum efficiency the printer should be capable of taking on most of the processing overhead. Many departmental printers now have options such as hard disk/RAM disk for storing regularly-printed documents and RIP once technology which enables multiple copies of single documents to be printed with minimum network traffic.

PRINT WITH CONFIDENCE

Confirm the terms of warranty for any printer you buy, plus the accessibility of technical support. Check if the manufacturer's Web site offers updated drivers, firmware updates and online help and whether telephone support is available. Consider purchasing extended warranty for the printer, particularly if it's mission critical and you cannot do without it whilst it's returned to the manufacturer for repair. Many departmental printers now offer on-site warranty as standard, some for two years from date of purchase.

COST OF OWNERSHIP

Most organisations are unaware that using a printer can cost several times as much as purchasing it – because consumables are usually signed off at departmental or team level the cost is not closely controlled. Especially for high volume models, check the cost and yield of consumables and calculate what it might cost to run it over its expected life. Remember the cheapest model to buy could be the most expensive to own – and the difference can amount to thousands of pounds per printer.

Page Printers 405–422, 427–437,
Brother, Epson, Hewlett-Packard, Kyocera, Lexmark, OKI, QMS, Samsung, Tally, Tektronix, Xerox

Page Printers – Colour 427–437
Hewlett-Packard, Tally, Tektronix, Xerox, Minolta

Page Printers – Windows 408
Brother

Page Printers – LED 405
OKI

Page Printer Accessories 423, 438–440
Brother, Epson, Hewlett-Packard, Kyocera, OKI, Panasonic, Tektronix, Xerox

Page Printer Memory Upgrades – 3rd Party 438
Extra

OTHER ITEMS

FOR GUIDE TO DOT MATRIX PRINTERS SEE PAGE 441
FOR GUIDE TO INKJET PRINTERS SEE PAGE 374
FOR GUIDE TO MULTIFUNCTIONAL PRODUCTS SEE PAGE 452

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LED PAGE PRINTERS

OKI

The **OKI Page10ex** brings all the capabilities and qualities that individual business users require from a professional printer. With a print speed of 10ppm, the OKIPage 10ex is highly efficient for all your needs at the desktop, while the 4MB standard memory with added upgradeability greatly reduces the chance of a data bottleneck slowing down your PC.

The **OKIPage 12i/n** is the professional solution for desktop and networking printing for small workgroups. Its ability to handle a wide range of paper sizes and a large volume of paper create crisp correspondence, sharp presentations and eye-catching communications for your workgroup.

The **OKIPage 20 Plus** series is a high performance workgroup page printer with duplexing capability. Running at **twenty pages per minute,** this printer's first print is only 7 seconds. The 20n also comes fitted with 8MB of RAM as standard. Top quality output in both text and graphics is ensured by output via OKI's 600dpi LED print head.



Model	10ex	12i/n	20 Plus
Print speed	10ppm	12ppm	20ppm
Emulations	PCL6	PCL6	PCL6, IBM ProPrinter III XL & Epson SIDM
RAM	4MB (upgradable to 37MB)	4MB (expandable to 36MB)	8MB (expandable to 68MB)
Resolution	1200dpi class	600 × 1200dpi	600 × 1200dpi (600dpi printhead)
Interfaces	Centronics bi-directional parallel	Centronics bi-directional parallel, 10Base-T	Bi-directional parallel and serial interface
Cables	See pages 569–575		
Fonts	45 scalable	45 scalable, 37 PostScript	45 scalable, 1 bitmapped
Paper handling	250 sheet autofeeder input; 50 sheets face up/150 face down output	50 sheet autofeeder input; 150 sheet output	530 sheet input; 250 sheet face down
Dimensions (W × D × H)	330 × 395 × 200mm	330 × 377 × 200mm	366 × 462 × 331mm
Weight	10kg	10kg	19kg
Warranty	12 months on-site		

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
OKIPage 10EX	47-57-21	223.49	➧	224.95	224.39	
OKIPage 10EXs	47-57-38	255.71	➧	259.95	258.39	
OKIPage 12i/n	47-57-45	320.63	➧	325.95	323.99	
OKIPage 20 Plus	68-55-11	645.73	➧	649.95	648.33	✂
OKIPage 20 Plus N (Ethernet Version)	68-55-28	855.76	➧	869.95	864.73	✂
OKIPage 20 Plus DX (Duplex version)	68-55-42	895.86	➧	899.00	898.10	
OKIPage 20 Plus DXN (Ethernet/Duplex)	68-55-66	952.16	➧	967.95	962.14	✂
OKIPage 24DX (Duplex)	47-30-97	855.76	➧	869.95	864.73	✂
ACCESSORIES	**FOR USE WITH**					
Action Printer Starter Kit	OKIPage 12 series	04-97-86	23.12	25.95	25.17	24.42
Action Printer Starter Kit	16 series	04-97-93	31.49	32.95	32.62	32.29
Action Printer Starter Kit	OKIPage 20 series	04-98-03	31.49	32.95	32.62	32.29

OTHER ITEMS

FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR LASER PRINTER ACCESSORIES SEE PAGES 438–440

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LASER PAGE PRINTERS — EPSON®

69-22-99



The **EPL-5800** range provides high quality true 1200dpi printing on paper sizes up to A4. With a print speed of up to 10ppm this printer is designed to offer sophisticated yet reliable local or small workgroup printing with a small footprint suitable for the desktop.

- Compact 10ppm A4 laser printer.
- True 1200dpi resolution.
- Standard USB and IEEE 1284 parallel interface.
- Three models: EPL-5800, EPL-5800N and EPL-5800PS.

25-95-83



The **Epson EPL-N1600** is a 16ppm laser printer. An amazingly fast 150MHz processor, the most powerful in it's class ensures maximum productivity with even the most demanding page layouts. Two additional versions are available: the network ready EPL-N1600ENT with additional 500 sheet cassette and the workgroup ready EPL-N1600T with additional 500 sheet cassette.

- Fast 16ppm printing.
- Powerful 150MHz.
- Superb 1200dpi class printing with EPSON's unique MicroGray and BiRITech printing technology.
- Comprehensive network connectivity including support for Novell, Windows 3.1x/95/98/NT, Unix, Apple, IBM and many other platforms. Optional 100BaseTX network connectivity.
- Advanced remote network management and status monitoring software using new EPSON Net2 and EPSON Status Monitor2.

Model	EPL-5800	EPL-N1600
Output	10ppm	16ppm
RAM	16MB (144MB on EPL-5800PS) upgradable to 256MB	8MB
Resolution	1200 × 1200dpi	600 × 600dpi
Printer Language	PCL6, PCL5e, ESC/P2, ESC/Page, FX, I239X, GL2, Adobe PostScript3 (standard on EPL-5800PS)	PCL5e, ESCP/P2, FX, IBM, GL2
Fonts	31 PCL, 10 ESC/P2 & FX, 8 I329X, 17 Barcode	Scalable, Bitmap
Cables	See pages 569–575	
Interfaces	Epson Type B Interface Slot, IEEE 1284 Bi-directional Parallel, RS232C	High Speed Bi-directional Parallel, IEEE-1284
Input Tray	150 sheet multi-purpose tray, manual tray	250 sheet cassette, 80 sheet manual tray
Dimensions (W × D × H)	387 × 475 × 338mm	264 × 120 × 421mm
Weight	7kg	12kg
Warranty	12 months call-out	12 months return-to-base

www.action.com/epson

EPSON COVERPLUS

Page 32

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	EPL-5800	69-22-99	238.39	♦	239.95	239.35
NEW	EPL-5800N	48-12-62	373.51	♦	375.95	375.01
NEW	EPL-5800PS	27-36-97	447.03	♦	449.95	448.83
✂	EPL-N1600	25-95-83	437.69	♦	444.95	442.28
	EPL-N1600T	25-95-90	556.32	♦	559.95	558.55
	EPL-N1600ENT	25-96-00	675.54	♦	679.95	678.25
	ACCESSORIES — **FOR USE WITH**					
	Action Printer Starter Kit — EPL-N1600 Series	04-12-46	74.51	77.95	77.17	76.40
	Action Printer Starter Kit — EPL-N5800 Series	06-33-46	55.39	57.95	57.37	56.80

OTHER ITEMS

FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR LASER ACCESSORIES SEE PAGES 438–440

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LASER PAGE PRINTERS

EPSON®

The **Epson EPL-N2050** range of laser printer provides high quality true 1200dpi printing on paper sizes up to A4 at a class leading 20ppm. Designed to offer sophisticated yet reliable network workgroup printing the EPL-N2050 features an EPSON controller running a fast 166MHz VR4310 RISC Processor and an in-built 10/100Base-TX Ethernet Print Server.

The **Epson EPL-N2700** provides a comprehensive printing solution for demanding workgroup or departmental users. A class leading print speed of 27ppm coupled with an advanced 166MHz RISC driven EPSON's printer controller provides 1200dpi class output. The EPL-N2700T is also available, fitted as standard with an additional 500 sheet paper cassette, 2500 sheet large capacity paper feeder and duplex unit.

The **Epson EPL-N4000** is an extremely fast 40ppm laser printer with extensive paper handling facilities making it particularly suitable for demanding workgroup or departmental printing applications. A powerful EPSON controller with a 133MHz RISC processor ensures maximum productivity. The EPL-N4000T is also available with a Duplex Unit, 10 Bin Mailbox and high capacity paper feeder (3550 sheets).



47-57-52

EPSON COVERPLUS

Page 32

Model	EPL-N2050	EPL-N2700	EPL-N4000
Output	20ppm	27ppm	40ppm
RAM	16MB (144MB EPL-N2050PS)	64MB (upgradable to 256MB)	16MB (maximum 256MB)
Resolution	1200 × 1200dpi	1200dpi	600 × 600dpi
Printer Language	PCL6, PCL5e, ESC/P2, IBM, GL/2	PCL5e, FX, ESC/P2, IBM, GL/2	PCL5e, ESCP/P2, FX, IBM, GL2
Fonts	80 scalable, 1 Bitmap	45 scalable	45 scalable, 6 Bitmap
Cables	See pages 569–575		
Interfaces	Standard 10/100Base-TX, RJ-45, Parallel IEEE-1284 Bi-directional parallel, Serial RS-232		Ethernet 100Base TX, High-speed Bi-directional
Input Tray	100 sheet multipurpose	250 sheet multipurpose tray (including A3), 500 sheet	2 × 500 sheet cassette, 50 sheet multipurpose tray
Output Tray	550 sheet	500 sheets face down	500 sheets face down, 200 optional face up
Dimensions (W × D × H)	422 × 439 × 413mm	486 × 642 × 532mm	535 × 559 × 428mm
Weight	26kg	47.5kg	30kg
Warranty	12 months on-site		

www.action.com/epson

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
EPL-N2050	12-11-18	745.09	▶	749.95	748.08	
EPL-N2050PS	37-00-14	988.55	▶	995.00	992.51	✂
EPL-N2700	47-49-49	1137.07	▶	▶	1149.00	
EPL-N2700T	47-12-47	2223.65	▶	▶	2229.00	✂
EPL-N4000	47-57-52	1608.13	▶	▶	1625.00	
EPL-N4000T	47-57-69	3120.00	▶	▶	3125.00	✂

DON'T FORGET YOUR CONSUMABLES

CONSUMABLES	FOR USE WITH					
Black Toner & Drum Collector Cartridge	EPL-N2700	23-53-50	107.46	▶	109.95	108.85
Black Toner Cartridge	EPL-N4000	94-10-66	81.81	84.95	84.10	83.26

OTHER ITEMS

FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR LASER ACCESSORIES SEE PAGES 438–440

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

LASER PAGE PRINTERS

brother



Brother's mono laser printer range. With 4 models and numerous variants, there is no other range on the market offering such a high specification for such a competitive price.
The **HL-1030** is a Windows dedicated printer. It prints at 10ppm, at 600dpi class resolution and 2MB of memory at a low cost.
The **HL-1240** is an entry level Windows and DOS printing solution. 12ppm at 600 × 600dpi quality, 250 sheet paper input with 2MB of RAM.
The **HL-1250** comes in 4 different variations. A choice of 4MB or 8MB and with or without the extra lower paper tray. A USB port and 1200 × 600dpi class printing comes as standard.
The **HL-1270N** is a network enabled 12ppm laser printer with 4MB or 8MB options as well as lower paper tray variants. 1200 × 600dpi class resolution and 250 sheet paper input make the HL-1270N the natural 1st choice for all business users.

Model	HL-1030	HL-1240	HL-1250	HL-1270N
Output	10ppm	12ppm		
Resolution	600dpi class	True 600 × 600dpi	1200 × 600dpi class	
RAM	2MB		4MB/8MB	
Emulations	N/A	PCL-4	PCL6, Epson, IBM Windows	PCL6, Epson, IBM PostScript level2
Interfaces	IEEE-1284 bi-directional parallel as standard; 10Base-T optional	HS Bi-directional Parallel, USB port, 10/100Base-T (1270N only)		
Cables	See pages 569–575			
Fonts	N/A	24 TrueType	49 scalable, 12 Bitmap, 11 Barcode	56 scalable, 12 Bitmap, 11 Barcode
Paper Handling	250 sheet tray	1 × 250	2 × 250	
Dimensions (W × D × H)	360 × 370 × 235mm			
Weight	9.2kg			9.3kg
Warranty	12 months on-site			

www.action.com/brother

DON'T FORGET YOUR CONSUMABLES

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
HL-1030	31-35-51	159.31	➧	161.95	160.98
HL-1240 – 2MB	47-17-80	174.85	➧	177.75	176.68
HL-1250 – 4MB	47-17-85	204.56	➧	207.95	206.70
HL-1250 – 8MB	47-31-00	224.48	➧	225.95	225.39
HL-1250 – 4MB with lower paper tray	47-31-04	294.12	➧	299.00	297.21
HL-1250 – 8MB with lower paper tray	47-53-63	312.91	➧	314.95	314.16
HL-1270N – 4MB	47-53-57	320.63	➧	325.95	323.99
HL-1270N – 8MB	47-94-83	342.27	➧	347.95	345.86
HL-1270N – 4MB with lower paper tray	47-17-29	406.21	➧	412.95	410.47
HL-1270N – 8MB with lower paper tray	47-70-27	425.89	➧	432.95	430.35

ACCESSORY	FOR USE WITH					
Action Printer Starter Kit	1240/1250/1270	04-30-94	36.27	37.95	37.57	37.19

OTHER ITEMS

FOR ORIGINAL PRINTER SUPPLIES SEE PAGES 950, 951
FOR PRINTER CABLES SEE PAGES 569–575
FOR LASER ACCESSORIES SEE PAGES 438–440

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LASER PAGE PRINTERS

brother

The **Brother HL-1660e** – High performance *desktop* laser.
- High volume 16 pages per minute (A4).
- Stunning 1200 × 600dpi quality.
- 8MB of RAM expandable to 72MB.
- 100MHz RISC processing power.
- PostScript level 2 and HP's PCL6 language for Windows and DOS users.
- 150 sheet multi-purpose tray and 500 sheet cassette standard for volume printing.

The **Brother HL1660eN** – High performance *network ready* laser.
Same as the HL1660e with added:
- Internal multi-protocol network card.
- 10Base-T and 10Base-2 connectivity.
- 8 or 16MB of RAM.

Supports all major networks, ideal solution for a network ready workgroup laser printer.

The **Brother HL-2060** is the most affordable, flexible 20ppm departmental laser printer currently available on the market today. Featuring 1200 × 1200dpi printing with a variety of paper handling options. A network ready version the HL-2060EN is also available.



Model	HL-1660e	HL-1660eN (8)	HL-1660eN (16)	HL-2060
Output	16ppm			20ppm
Resolution	1200 × 600dpi			1200 × 1200dpi
RAM	8MB		16MB	8/16MB (upgradable to 72MB)
Emulation	PCL6, FX-850, ProPrinter XL, BR-Script 2, HP-GL			PCL6, PostScript Level 2, IBM ProPrinter XL, Epson FX-850, HP-GL
Interfaces	High speed, bi-directional, parallel, RS-232C, MIO, USB	High speed, bi-directional, parallel, RS-232C, Multi protocol MIO, USB		High speed. bi-directional parallel, MIO, USB
Cables	See pages 569–575			
Fonts	12 Bitmapped & 75 Scalable			
Paper Handling	1 × 500 sheet & 1 × 150 sheet multi-purpose tray			
Dimensions (W × D × H)	DON'T FORGET YOUR CONSUMABLES	372 × 393 × 327mm		396 × 400 × 389mm
Weight	15kg			
Warranty	12 months on-site			

www.action.com/brother

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
HL-1660e (PostScript + PCL6, 8MB)	69-41-93	560.65		569.95	566.53	
HL-1660e (8MB) & Extended Warranty	04-95-11	666.89		677.95	673.88	✂
HL-1660eN (Network 8MB Ready Version)	69-42-27	742.63		754.95	750.42	✂
HL-1660eN (Network 16MB Ready Version)	69-42-72	757.39		769.95	765.33	
HL-2060 (16MB)	49-30-88	635.41		645.95	642.07	✂
HL-2060eN (8MB) Network ready version	25-97-27	796.73		809.95	805.09	✂
HL-2060eN (16MB) Network ready version	49-30-95	819.36		832.95	827.95	✂

ACCESSORY	FOR USE WITH					
Action Printer Starter Kit	1660/2060	06-22-82	49.65	51.95	51.43	50.92

OTHER ITEMS

FOR ORIGINAL PRINTER SUPPLIES SEE PAGES 950, 951
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR LASER ACCESSORIES SEE PAGE 438–440

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

LASER PAGE PRINTERS

KYOCERA

69-83-64



Action Office PLAN
EXTENDED WARRANTY! SEE PAGES 34-36
Please call for more configurations

The **FS-680** is a high quality laser printer for personal or small workgroup use. Optional 250-sheet paper cassette for greater flexibility and convenience and low cost network or serial connectivity for printer sharing.
The **FS-800** comes with PCL5e, PostScript level 2, 4MB of RAM and a 50MHz PowerPC as standard. The printer is similarly styled to the award-winning FA Porsche designed FS-600, but has the addition of a user-friendly LCD control panel.
The **FS-1200** is the sophisticated solution for small teams or individual users with more demanding low volume printing requirements from **Kyocera**. The FS-1200 comes with 12ppm print speed, 70MHz Power PC processor and various upgrade options.
The **FS-1750** laser printer offers 14ppm print speed, a fast 100MHz processor, 8MB RAM and stunning 1200dpi print resolution as standard. It offers maximum flexibility through its choice of paper handling and network options.

Model	FS-680	FS-800	FS-1200	FS-1750
Speed	8ppm		12ppm	14ppm
Emulations	PCL5e, IBM Proprinter C24E, Epson LQ-850	PCL5e, IBM Proprinter X24E Epson LQ-850	PCL6, PostScript Level 2, IBM ProPrinter X24E, Epson LQ-950, line printer	
RAM	4MB (upgradable to 36MB)	4MB (Max: 36MB)	4MB (upgradable to 68MB)	8MB (upgradable to 72MB)
Resolution	600dpi	600dpi, KIR2 (1200dpi quality)	1200dpi	
Interfaces	IEEE 1284-compliant high speed bi-directional parallel		Bi-directional parallel (IEEE-1284 compliant), high speed option, optional RS-232 serial	Bi-directional parallel (IEEE-1284), serial interface RS-232, high speed option
Cables	See pages 569–575			
Fonts	45 internal scalable, 80 bitmapped	45 outline (PCL5e), 80 internal bitmapped	80 Internal scalable, 1 bitmap, 45 internal	
Paper handling	150 sheet universal cassette		250 sheet universal cassette and 100 sheet multi-purpose	
Dimensions W×D×H	363×360×222mm	363×360×310mm	373×383×310mm	
Weight	8.5kg		14kg	
Warranty	2 years return-to-base			

ECOSYS

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
FS-680	47-17-58	226.20	▶	229.95	228.57
FS-680T – Twin cassette version	47-17-71	295.06	▶	299.95	298.15
FS-800	69-83-64	281.28	▶	285.95	284.23
FS-800T – Twin cassette version	47-17-28	347.68	▶	349.95	349.08
FS-800N 3NMP Compliant Network	47-70-26	452.45	▶	459.95	457.19
FS-1200	47-17-84	408.18	▶	414.95	412.46
FS-1200T	47-53-62	563.60	▶	572.95	569.51
FS-1200N	47-31-03	582.15	▶	585.95	584.49
FS-1750	47-17-79	546.42	▶	549.99	548.62
FS-1750N	47-30-99	711.31	▶	715.95	714.16
FS-1750T	47-17-33	695.41	▶	699.95	698.20

DON'T FORGET YOUR CONSUMABLES

ACCESSORY	FOR USE WITH					
Action Printer Starter Kit	FS-680	04-26-66	38.18	39.95	39.55	39.15
Action Printer Starter Kit	FS-1200	04-49-54	42.92	50.00	48.00	46.08

OTHER ITEMS
FOR ORIGINAL PRINTER SUPPLIES SEE PAGES 987–988
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR LASER ACCESSORIES SEE PAGES 438–440

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LASER PAGE PRINTERS

KYOCERA

The **FS-3750** is the flagship ECOSYS workgroup printer and offers fast 18ppm print speed, 166MHz PowerPC processor, 16MB RAM and 1200dpi print resolution as standard. It offers maximum flexibility through its choice of paper handling and network options.
The versatile **FS-6700** has the lowest consumables costs of any laser printer, costing just 0.3p per page. It is designed to support both A3 and A4 media and print speed at A4 1 a rapid 20ppm.
The 166MHz, 28ppm **FS-7000+** is a flexible high speed printer designed to be your powerful network printing partner. It begins with 2 × 500 sheet input cassettes and accepts up to four more, plus optional duplex. With a choice of versatile output options.
The 233MHz, 36ppm **FS-9000** comes as standard with PCL6 and PostScript Level 2 emulations and two 500 sheet input cassettes. Upgrade options include up to four further cassettes, optional duplex and a barcode reader for document management.



Model	FS-3750	FS-6700+	FS-7000+	FS-9000
Speed	18ppm	A4 20ppm/A3 11ppm	A4 28ppm/A3 15ppm	A4 36ppm/A3 20ppm
Emulations	PCL6, PostScript Level 2, IBM ProPrinter X24E, Epson LQ-950, line printer	PCL5e, PostScript Level 2	PCL 6, PostScript Level 2, Diablo 630, IBM Proprinter × 24E, Epson LQ-950	
RAM	16MB (upgradable to 64MB)	4MB	8MB (upgradable to 72MB)	16MB (upgradable to 64MB)
Resolution	1200dpi	600 × 600dpi, 1200dpi with KIR2		
Interfaces	Bi-directional parallel (IEEE-1284 compliant), serial interface RS-232, high speed option	Bi-directional parallel, RS232/422 serial		
Cables	See pages 569–575			
Fonts	80 internal scalable, 1 bitmap, 45 internal barcodes	45 scalable		
Paper handling	250 sheet universal cassette and 100 sheet multi-purpose	1 × 250 universal cassette, 100 multi-purpose feed	Dual 500 sheet universal cassette, 100 multi-purpose feed	
Dimensions (W × D × H)	373 × 383 × 310mm	483 × 411 × 350mm	560 × 566 × 345mm	
Weight	14kg	21kg	Main unit: 38.2kg; Paper feeder: 19.5kg	
Warranty	2 years return-to-base			

Please call for further upgrade options

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
FS-3750	47-15-19	718.04	▶	729.95	725.57	✂
FS-3750T	47-22-69	878.38	▶	892.95	887.59	✂
FS-6700	47-82-47	939.37	▶	954.95	949.22	
FS-6700N	47-82-54	1118.22	▶	▶	1129.95	✂
FS-7000+	88-06-08	1677.41	▶	▶	1695.00	
FS-7000N+	52-95-88	1829.81	▶	▶	1849.00	
FS-9000	22-50-27	1908.98	▶	▶	1929.00	
FS-9000N	12-08-99	2074.01	▶	▶	2079.00	

ACCESSORY	FOR USE WITH					
Action Printer Starter Kit	FS-1750/3750	05-70-77	57.87	64.95	63.00	61.11

OTHER ITEMS

FOR ORIGINAL PRINTER SUPPLIES SEE PAGES 987–988
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR LASER ACCESSORIES SEE PAGE 438–440

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

LASER PAGE PRINTERS

LEXMARK



Lexmark E310

- Lowest cost postscript laser printer on the market!
- 8ppm laser printer.
- Built-in USB port – Macintosh and Windows.
- PostScript Level 2 and PCL6 emulations as standard.
- High capacity 5,000 page toner cartridge supplied as standard.
- Up to 66MB memory.
- Optional flash memory for storing logos, forms and fonts.

Lexmark M410

- Fantastic value for your workgroup!
- Ideal for small workgroups or high volume personal use – either parallel or internal ethernet connectivity.
- 12ppm laser printer.
- Built-in USB port – Macintosh and Windows.
- PostScript level and PCL6 emulations as standard.
- High capacity 5,000 page toner cartridge supplied as standard.
- Optional high yield 10,000 page toner cartridge.
- Quick results with 74MHz processor.

Model	E310	M410
Output	8ppm	12ppm
Emulation	PostScript 2, PCL6, PCL5e	PostScript 3, PCL6
Resolution	1200 Image Quality	1200 × 1200dpi
RAM	2MB expandable to 66MB	4MB expandable to 260MB
Interfaces	HS Bi-directional parallel (IEEE-1284 compliant), USB	HS Bi-directional parallel
Dimensions (W × D × H)	345 × 365 × 224mm	400.3 × 498.1 × 340mm
Warranty	12 months on-site	

DESCRIPTION (MARKVISION)	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Optra E310	52-38-95	213.41	▶	216.95	215.65
Optra E310 & 3 year on-site warranty	38-29-70	279.32	▶	283.95	282.25
Optra M410	47-22-65	425.89	▶	432.95	430.35
Optra M410 & 3 year on-site warranty	36-99-84	486.92	▶	495.00	492.03
Optra M410n	47-17-81	526.27	▶	535.00	531.79

ACCESSORIES	FOR USE WITH					
Action Printer Starter Kit	Optra E310	06-33-22	40.05	44.95	43.60	42.29
Action Printer Starter Kit	Optra M Series	04-53-48	76.42	79.95	79.15	78.36

OTHER ITEMS

FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR OFFICE PRODUCTS SEE PAGES 459–540

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶ Save £££'s!
▶▶ Check live stock
▶▶ Track order status

LASER PAGE PRINTERS

LEXMARK

Optra W810/n/dn
A3/A4 production-orientated printing platform. Outstanding 35ppm (A4) performance with less than 9.5 seconds to first page plus a 200MHz processor services you department's print jobs with rapid efficiency. Includes stapling, hole punching and offset stacking.



Optra T610, T612, T614 and T616

Save money and gain peace of mind with the Special Warranty Bundle Offers listed below

- 15, 20, 26 and 35ppm mono laser printers.
- Totally modular – paper handling options, toner, memory and network cards fit all Optra T models.
- Powerful 200MHz processor (Optra T616) resulting in 9 seconds first page – no waiting!
- True 1200×1200dpi print quality.
- High yield 25K toner cartridge.

Model	Optra T610	Optra T612	Optra T614	Optra T616	Optra W810
Output	15ppm	Up to 20ppm	25ppm	Up to 35ppm	35ppm
Emulation	PostScript 3, PCL6				
Resolution	1200×1200dpi	600×600dpi			
RAM	4MB expandable to 260MB	8MB expandable to 264MB	8MB expandable to 392MB	16MB expandable to 400MB	16MB expandable to 384MB
Interfaces	HS Bi-directional parallel IEEE-1284 compliant	HS Bi-directional parallel	HS Bi-directional parallel, RS232C serial	HS Bi-directional parallel	
Max. paper input/output	3350/250	3600/1750	4100/2650		—
Dimensions (W×D×H)	400.3×498.1×340mm	418.1×513×378.9mm	418.1×513×404.3mm		590×680×556mm
Warranty	12 months on-site				

MARKVISION

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Optra T610	47-49-51	639.35	▶	649.95	646.05	✂
Optra T610 + 2 year on-site warranty extension	38-29-71	1364.69	▶	▶	1379.00	✂
Optra T610n	47-94-84	841.00	▶	854.95	849.82	✂
Optra T612	47-12-48	756.45	▶	769.00	764.39	✂
Optra T612 + 2 year on-site warranty extension	12-10-81	819.36	▶	832.95	827.95	✂
Optra T612n	47-70-29	954.12	▶	969.95	964.13	✂
Optra T614	47-08-39	1216.24	▶	▶	1229.00	✂
Optra T614 + 2 year on-site warranty extension	38-29-71	1364.69	▶	▶	1379.00	✂
Optra T614n	47-12-49	1453.75	▶	▶	1469.00	✂
Optra T616	47-38-96	1499.28	▶	▶	1515.00	✂
Optra T616 + 2 year on-site warranty extension	36-99-86	1651.68	▶	▶	1669.00	
Optra T616n	47-38-97	1612.09	▶	▶	1629.00	✂
Optra W810	47-27-72	1647.67	▶	▶	1664.95	✂
Optra W810n	47-36-80	1793.19	▶	▶	1812.00	✂
ACCESSORIES	**FOR USE WITH**					
Action Printer Starter Kit	Optra T Series	04-94-79	142.84	▶	147.95	146.47
Action Printer Starter Kit	Optra W Series	04-17-20	89.80	93.95	93.01	92.08

OTHER ITEMS

FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR OFFICE PRODUCTS SEE PAGES 459–540

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶ Save £££'s!
▶▶ Check live stock
▶▶ Track order status

LASER PAGE PRINTERS

XEROX



The **Xerox Docuprint N2025** combines 32MB RAM and true Adobe PostScript 3, Ethernet 10/100BaseTx, Parallel and USB interfaces as standard and full WorkSet Technology convenience features.
The **Docuprint N2125/2125B** offers razor sharp true 1200dpi output at up to 20ppm. It also has levels of robustness and modularity all users will enjoy. Using its unique dependable feeder system, the standard 550 sheet input tray automatically senses the type of media it is printing to.
The **Docuprint N2825** offers unparalleled paper handling flexibility, a printing speed of 28ppm, a crisp 1200dpi image quality and a high performance 200MHz PowerPC RISC Processor and Send Once, RIP Once, Print Many function.

Model	Docuprint N2025	Docuprint N2125/N2125B	Docuprint N2825
Output	20ppm		28ppm
Printer Language	PCL5e, PCL6, Adobe PostScript 3		
RAM	32MB (upgradable to 192MB)		
Resolution	1200 × 1200dpi		
Interfaces	Ethernet 10/100Base-TX, IEEE 1284 bi-directional parallel, USB		
Cables	See pages 569-575		
Fonts	10 TrueType, 35 Intellifonts, 1 Bitmap, 39 Adobe Type 1		
Paper Input	500 sheet tray, 150 sheet multipurpose	550 sheet universal tray, 100 sheet multipurpose	500 sheet tray, 150 sheet multipurpose
Paper Output	500 sheet face down		
Dimensions (W × D × H)	490 × 460 × 395mm	442 × 439 × 413mm	490 × 460 × 395mm
Weight	27kg	26kg	27kg
Warranty	12 months on-site		

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	Docuprint N2025	12-11-71	954.12	◗	969.95	964.13
NEW	Docuprint N20225D	38-30-58	1095.59	◗	◗	1099.99
NEW	Docuprint N2125	22-52-82	767.26	◗	779.99	775.31
NEW	Docuprint N2125B	53-01-61	687.59	◗	699.00	694.81
NEW	Docuprint N2825	37-00-61	1315.21	◗	◗	1329.00
NEW	Docuprint N2825D	53-78-44	1443.86	◗	◗	1459.00
NEW	Docuprint N3225D	64-78-62	2409.21	◗	◗	2415.00
NEW	Docuprint N4025D	77-83-62	2618.71	◗	◗	2625.00
	ACCESSORIES					
	Action Printer Starter Kit for N2125/B	04-27-87	78.92	81.95	81.13	80.32
	Action Printer Starter Kit for N2025/D/N2825/D	04-36-92	110.85	◗	113.95	112.81
	Action Printer Starter Kit for N3225D/N4025D	04-98-27	178.56	◗	184.95	183.10

OTHER ITEMS
FOR ORIGINAL PRINTER SUPPLIES SEE PAGES 1006–1008
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR LASER ACCESSORIES SEE PAGES 438–440

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LASER PAGE PRINTERS

SAMSUNG ELECTRONICS

The **ML-6040** is a smart GDI 12ppm laser printer that boasts PCL4 emulation, a 250 sheet paper supply and 4MB memory. Ideal for where space is at a premium.
The **ML6060/6060N** are great value and easy to use business class laser printers that boast superior, speed print performance and high print quality for the ultimate in productivity. Robust network connectivity (standard on 6060N) plus flexible paper handling make them ideal for workgroup use.
The **ML7050** is a great choice for economical business printing. Printing at 1200dpi class and 16ppm, its features include duplex as standard plus ultimate in workgroup productivity.
The **ML7300N** features a powerful 20ppm engine and controller plus duplex network connection as standard. Other benefits include PostScript III and PCL6 emulations, 1200dpi class print quality, plus 16MB memory.



53-00-87

Model	ML-6040	ML-6060/6060N	ML-7050	ML-7300N
Output	12ppm		16ppm, A4, 17ppm letter	20ppm
Printer Language	Smart GDI, PCL4	PCL6 (optional PSIII)	PCL5e, PCL6, PostScript 2	PCL6, PSIII
RAM	4MB	4MB (upgradable to 32MB) 6060;16MB (upgradable to 80MB) 6060N	12MB (upgradable to 68MB)	16MB (upgradable to 144MB)
Resolution	600 × 600dpi, up to 1200dpi RET			1200 × 1200dpi
Fonts	44 scalable, 1 Bitmap	45 scalable, 1 Bitmap	35 intellifont, 10 TrueType, 35 Type 1, 1 bitmap	
Cables	See pages 569–575			
Interfaces	IEEE 1284 Parallel, USB	IEEE 1284 Parallel USB, 10/100Base TX (6060N)	IEEE 1284 Parallel Apple Talk, RS232C	IEEE 1284 Parallel LocalTalk RS232C
Input Tray	270 sheets Universal, 1 sheet manual	550 sheets Universal, 100 sheets multipurpose tray	100 sheets multipurpose tray, 500 sheets A4 cassette. Duplex standard	500 sheets, 100 sheets multi-purpose
Output Tray	250 sheets face down			
Dimensions	370 × 407 × 249mm	370 × 407 × 294mm	427 × 442 × 301mm	442 × 427 × 311mm
Warranty	12 months on-site maintenance			

DON'T FORGET YOUR CONSUMABLES

DESCRIPTION		CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
ML-6040		81-15-30	175.05	▶	177.95	176.88	NEW
ML-6060		61-31-57	203.57	▶	206.95	205.71	NEW
ML-6060N		34-91-81	292.10	▶	296.95	295.17	NEW
ML-7050		53-00-87	569.55	▶	579.00	575.53	
ML-7300N		51-40-19	777.06	▶	789.95	785.21	NEW
CONSUMABLES	**FOR USE WITH**						
Black Toner Cartridge	ML-7000	23-94-78	75.46	78.95	78.16	77.38	

OTHER ITEMS

FOR PARALLEL PRINTER CABLES SEE PAGES 569–575

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

LASER PAGE PRINTERS

HEWLETT PACKARD
TAKE COVER
See page 432



25-90-57

The personal **HP LaserJet 1100 Printer** and the **HP LaserJet 1100A** printer, copier, scanner, provide you with high-performance print functions for all your office printing needs. For even more efficiency, the HP LaserJet 1100A integrates copy and scan functions for state-of-the-art management and communication of business documents.

HEWLETT PACKARD HELPLINE
08701 66 99 77

FEATURES:

HP LaserJet 1100 Printer

- Quickly print professional looking documents at 8 pages per minute with true 600dpi, HP Resolution Enhancement technology (REt) and the HP UltraPrecise toner cartridge.
- Print the business documents you need with 2MB standard memory (can be increased to 18MB for complex print jobs).
- Alternative paper paths for a wide variety of print media.
- Work with standard operating systems such as Windows 3.1x, Windows 95/98, Windows NT 4.0, DOS.
- Superior HP LaserJet quality and reliability.

HP LaserJet 1100A Printer, Copier, Scanner

All the features of the HP LaserJet 1100 plus more efficiency at your desktop with advanced functions.

- Copy documents at the push of a button.
- Scan documents for your business applications: file, retrieve, OCR, attach to e-mail, etc.
- HP desktop software for efficient document management.
- All features are designed to work perfectly together and run under standard PC operating systems.

Model	HP LaserJet 1100	HP LaserJet 1100A
Output	8ppm	
Printer language	HP PCL 5e	
RAM	2MB (upgradable to 18MB)	
Resolution	600×600dpi	
Interfaces	IEEE-1284 ECP compliant	
Copy speed	N/A	Up to 8ppm
Scanner resolution	N/A	600dpi enhanced
Cables	See pages 569–575	
Fonts	26 Intellifont scalable	
Input trays	125 sheet	
Output trays – bin	100 sheet	
Dimensions (W×D×H)	367×325×378mm	367×402×378mm
Weight	7.3kg	8.7kg
Warranty	12 months return to HP (upgradable to 3 years on-site with HP SupportPack)	

visit www.action.com/hp

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
LaserJet 1100	25-90-57	230.45	➧	231.95	231.37
LaserJet 1100 & SupportPack	06-33-60	295.06	➧	299.95	298.15
LaserJet 1100A	25-90-64	283.10	➧	284.95	284.24
LaserJet 1100A & SupportPack	06-33-53	359.00	➧	364.95	362.76
ACCESSORY & CONSUMABLE					
Action Printer Starter Kit	06-45-89	36.75	38.45	38.07	37.68
Black Toner Cartridge	23-11-16	33.81	37.95	36.81	35.71

DON'T FORGET YOUR CONSUMABLES

OTHER ITEMS
FOR ORIGINAL PRINTER SUPPLIES SEE PAGES 976–979
FOR PARALLEL PRINTER SUPPLIES SEE PAGES 569–575

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LASER PAGE PRINTERS

The **HP LaserJet 2100** family offers versatile printing solutions for individuals and small workgroups. These printers are designed for flexibility that meet the needs of your business today and tomorrow. The HP LaserJet 2100M comes with additional memory and HP PostScript emulation. The HP LaserJet 2100TN includes all the features of the HP LaserJet 2100M plus a pre-installed HP JetDirect PrintServer and an additional 250 sheet paper tray. You can always adapt and enhance the printer's features to support the changing needs of your business.

FEATURES:

- True 1200 × 1200dpi print resolution at full speed.
- Sharper text and graphics with the new UltraPrecise toner.
- Fast 10ppm printing.
- 4MB of standard memory (expandable to 52MB).
- Easy network connectivity via an integrated EIO slot.
- Two standard paper trays with a total capacity of 350 sheets.
- Optional 250 sheet paper tray.



Model	LaserJet 2100	LaserJet 2100M	LaserJet 2100TN
Output	10ppm		
Printer Language	HP PCL6	HP PCL6 and HP PostScript Level II	
RAM	4MB (expandable to 52MB)	8MB (expandable to 40MB)	
Resolution	1200 × 1200dpi		
Fonts	45 Scalable built-in (additional 100 on CD-ROM for Windows)		
Cables	See pages 569–575		
Interfaces	IEEE-1284 ECP-compliant, B-size, IrDA compliant		
Connectivity	Infrared port and EIO slot are HP JetSend enabled		
Media Handling	Tray 1: 100 sheet; Tray 2: 250 sheet		
Dimensions (W × D × H)	406 × 420 × 230mm		406 × 420 × 390mm
Weight	11.5kg		14.4kg
Warranty	12 months off-site (upgradable to 3 years on-site with HP SupportPack)		

HEWLETT PACKARD HELPLINE 08701 66 99 77

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
LaserJet 2100	47-95-45	417.23	▶	419.95	418.90
LaserJet 2100 & SupportPack	06-58-70	531.14	▶	539.95	536.71
LaserJet 2100M	47-95-52	476.84	▶	479.95	478.75
LaserJet 2100M & SupportPack	06-58-87	580.32	▶	589.95	586.41
LaserJet 2100TN	47-95-69	596.06	▶	599.95	598.45
LaserJet 2100TN & SupportPack	06-58-94	695.41	▶	699.95	698.20
ACCESSORY					
Action Printer Starter Kit	06-68-00	53.88	55.95	55.39	54.84

OTHER ITEMS

FOR ORIGINAL PRINTER SUPPLIES SEE PAGES 976–979
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR LASER PRINTER ACCESSORIES SEE PAGES 438–439

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

LASER PAGE PRINTERS

52-96-33



Hewlett-Packard introduces the **HP LaserJet 4050 series,** the successor to the best selling HP LaserJet 4000 Series. The HP LaserJet 4050 offers solutions for any printing needs your customer may have. It offers even greater productivity, more print solutions and less management hassle. The HP LaserJet 4050 offers solutions for virtually any printing need and facilitates printer management through innovative software tools.

FEATURES:

- Provides wireless printing access for mobile users; enhanced document management like private printing; easy internet printing for general office users, as well as solutions for barcode, MICR and virtually any paper handling and finishing needs.
- The HP JetSend enabled FIR receiver eliminates the search for cables and drivers.
- 1200dpi at full engine speed.
- 17ppm print speed.
- MOPying and HP WebJetAdmin for remote management help reduce power consumption, waiting time and increase efficiency.
- Standard input of 600 sheets (100 sheet multipurpose tray and a 500 sheet tray or two 250 sheet trays).
- HP PCL6, HP PCL5e, PostScript level 2 emulation standard in all versions.
- 8MB memory standard; 16MB in N/T.
- 1 year return to HP warranty.

HEWLETT PACKARD HELPLINE 08701 66 99 77

Model	LaserJet 4050
Ouput	17ppm
Printer Language	HP PCL6, HP PCL5e, PostScript level 2
RAM	8MB standard memory
Resolution	1200dpi
Interfaces	Bi-directional parallel, serial 2 PCI EIO slots, Fast Infrared
Cables	See pages 569–575
Fonts	110 TrueType, plus HP FontSmart
Input Tray	600 sheet standard
Output Tray	250 sheets
Dimensions (W × D × H)	390 × 493 × 343
Weight	17.8kg
Warranty	12 months return to HP (upgradable to 3 years on-site with HP SupportPack)

visit www.action.com/hp

DON'T FORGET YOUR CONSUMABLES

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
LaserJet 4050	52-96-33	733.16	▶	737.95	736.11
LaserJet 4050 & SupportPack	06-53-52	885.27	▶	899.95	894.55
ACCESSORIES					
Action Printer Starter Kit	04-82-37	52.52	54.95	54.40	53.86
Duplex Unit	67-72-82	212.36	▶	219.95	217.75
500 Sheet Optional Feeder	41-57-43	186.29	▶	192.95	191.02

OTHER ITEMS

FOR ORIGINAL PRINTER SUPPLIES SEE PAGES 976–979
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR LASER PRINTER ACCESSORIES SEE PAGES 438–439

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LASER PAGE PRINTERS

Introducing the **HP LaserJet 4050 Series** – the new replacement for the best-in-class HP LaserJet 4000 Series printers – offering increased printing and networking performance, increased printer versatility, and lower total cost of ownership. Printing and networking performance is boosted by the new 133MHz processor, twice the standard memory in both the base and network models, and a 10/100Base-TX HP JetDirect internal print server for faster network throughput. The HP LaserJet 4050 Series printers make it easier and more affordable than ever to print what you want, how you want it, when you want it.



HP LaserJet 4050N
- Input capacity 1×100, 1×250.
- 17MB RAM.
- Network ready with HP JetDirect 10/100Base – TX Print Server as standard.
- JetSend enabled FIR.

HP LaserJet 4050T
- Input capacity 1×100, 2×250.
- 8MB RAM.
- Network capable with optional HP JetDirect Print Server.

HP LaserJet 4050TN
- Input capacity 1×100, 2×250.
- 16MB RAM.
- Network ready with HP JetDirect 10/100Base – TX Print Server as standard.
- JetSend enabled FIR.

Model	LaserJet 4050N/T/TN
Ouput	17ppm
Printer Language	HP PCL6, HP PCL5e, PostScript level 2
RAM	8MB/16MB N/TN
Resolution	1200dpi
Interfaces	Bi-directional parallel, serial 2 PCI EIO slots, Fast Infrared
Cables	See pages 569–575
Fonts	110 TrueType, plus HP FontSmart
Input Tray	600 sheet standard
Output Tray	250 sheets
Dimensions (W×D×H)	390×493×343mm (N); 390×426×385mm (N/TN)
Weight	17.8kg (N); 22kg (T/TN)
Warranty	12 months return to HP (upgradable to 3 years on-site with HP SupportPack)

HEWLETT PACKARD
TAKE COVER
Buy HP SupportPack
See page 432

HEWLETT PACKARD HELPLINE 08701 66 99 77

visit www.action.com/hp

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
LaserJet 4050N	22-50-54	933.85	◗	939.95	937.60
LaserJet 4050N & SupportPack	06-17-22	1118.22	◗	◗	1129.95
LaserJet 4050T	38-28-33	793.82	◗	799.00	797.00
LaserJet 4050T & SupportPack	06-94-79	963.96	◗	979.95	974.07
LaserJet 4050TN	12-09-18	993.46	◗	999.95	997.45
LaserJet 4050TN & SupportPack	06-70-26	1183.54	◗	◗	1195.95
ACCESSORIES					
Action Printer Starter Kit	04-82-37	52.52	54.95	54.40	53.86
16MB Memory	68-19-79	115.81	◗	119.95	118.75
32MB Memory	68-19-86	193.05	◗	199.95	197.95

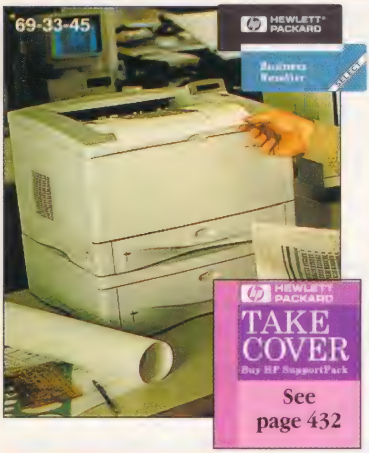
DON'T FORGET YOUR CONSUMABLES

OTHER ITEMS
FOR ORIGINAL PRINTER SUPPLIES SEE PAGES 976–979
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR LASER PRINTER ACCESSORIES SEE PAGES 438–439

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

LASER PAGE PRINTERS



HP LaserJet 5000 Series printers incorporate HP's most innovative new technologies. These printers are ideal for general office, finance, CAD, desktop publishing, marketing...any workgroup that requires fast, high-quality monochrome printouts. With the ability to print from 3×5″ to full bleed 11×17 images, they're an affordable alternative to 'multiple-printer' departments or outsourcing.

HP LaserJet 5000 Series printers provide a superior networking printing solution that includes industry-leading HP Web JetAdmin printer management software and HP JetDirect 600N internal print servers.

FEATURES:

- 16ppm engine and 100MHz RISC processor.
- HP Transmit Once (MOPying) enables the user to send a single command and receive multiple original copies.
- FastRes 1200 – enables the user to print 1200dpi quality at full engine speed.
- Enhanced driver support including the latest version of AutoCAD drivers.
- HP JetAdmin and HP Web JetAdmin printer management software for easy installation and management.
- Maximum of four input trays, with a capacity of 1,100 sheets.
- JetSend technology allowing direct communication between printers, scanners and other information devices without using a PC as the intermediary.

visit www.action.com/hp

Model	LaserJet 5000	LaserJet 5000N	LaserJet 5000GN
Output	16ppm		
Printer Language	HP PCL 6e, PCL 5e and PostScript Level II		
RAM	4MB (upgradable to 100MB)	8MB (upgradable to 100MB)	12MB (upgradable to 100MB)
Resolution	HP FastRes 1200 (1200dpi Quality)		
Fonts	80 scalable TrueType built-in, 30 via HP FontSmart. PostScript level II, Intellifont and TrueType		
Cables	See pages 569-575		
Interfaces	Bi-directional IEEE 1284-compliant parallel, RS-232 serial (9-pin)		
Connectivity	Two open EIO slots	HP JetDirect 600N print server for Ethernet 10BaseT, 10Base2 & LocalTalk	
Input Tray	250 sheet, 100 multipurpose	Additional 500 sheet tray	
Output Tray	300 sheets (face down)		
Dimensions (W×D×H)	475×585×375mm	475×625×515mm	
Weight	23kg	34kg	
Warranty	12 months return to HP (upgradable to 3 years on-site with HP SupportPack)		

HEWLETT PACKARD HELPLINE 08701 66 99 77

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
LaserJet 5000	69-33-45	959.04	▶	974.95	969.10
LaserJet 5000 & SupportPack	04-96-21	1084.58	▶	▶	1095.95
LaserJet 5000N	69-33-52	1373.49	▶	▶	1379.00
LaserJet 5000N & SupportPack	04-96-38	1558.65	▶	▶	1575.00
LaserJet 5000GN	69-33-69	1688.23	▶	▶	1695.00
LaserJet 5000GN & SupportPack	04-96-45	1895.12	▶	▶	1915.00
ACCESSORY & CONSUMABLE					
Action Printer Starter Kit	04-97-55	90.75	94.95	94.00	93.06
LaserJet 5000 series black toner	11-39-04	88.37	92.45	91.53	90.61

DON'T FORGET YOUR CONSUMABLES

OTHER ITEMS

FOR ORIGINAL PRINTER SUPPLIES SEE PAGES 976–979
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR LASER PRINTER ACCESSORIES SEE PAGES 438–439

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶ Save £££'s!
▶▶ Check live stock
▶▶ Track order status

LASER PAGE PRINTERS

Hewlett-Packard's LaserJet 8000 printers are the next generation of high-volume network printers from HP and incorporate many new HP features and improvements. A fast 133MHz processor, 16MB standard memory and a 24ppm engine combine with advanced HP technology to maximise output speed and reduce waiting time. The LaserJet 8000 also supports MOPying.



HP LaserJet	8000	8000N	8000DN
100 sheet multi-purpose tray	●	●	●
2×500 sheet paper tray	●	●	●
Standard two-sided printing			●
Memory (MB)	16	16	24
Network ready		●	●
Network capable	●		

Model	LaserJet 8000
Output	24ppm/133MHz Processor
Printer Language	HP PCL 5e, PCL 6 and PostScript Level II (automatic language switching and will receive JetSend communications)
RAM	16MB standard/upgradable to 88MB
Resolution	600 × 600dpi with Ret, HP FastRes 1200 (1200dpi quality)
Fonts	80 scaleable TrueType, 65 additional typefaces on desk
Cables	See pages 569-575
Interfaces	Bi-direct onal. IEEE 1284-compliant parallel interface
Connectivity	Three open EIO slots (base model), HP JetDirect card 10/100BT (8000n/dn)
Input Tray	100 sheet multipurpose, 2×500 sheet paper tray
Output Tray	500 sheets (face down), 100 sheets (face up)
Dimensions (W×D×H)	540×540×520mm
Weight	45kg
Warranty	12 months on-site (upgradable to 3 years with HP SupportPack)

HEWLETT PACKARD HELPLINE 08701 66 99 77

visit www.action.com/hp

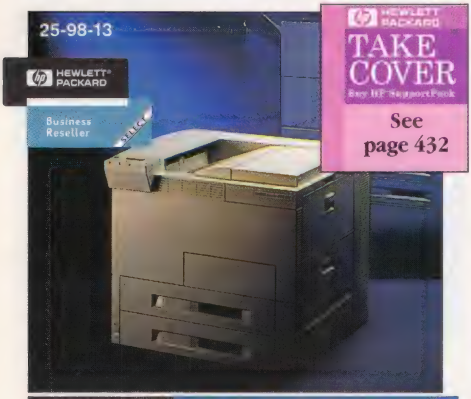
DON'T FORGET YOUR CONSUMABLES

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
LaserJet 8000	69-95-45	1470.10	➧	➧	1476.00	
LaserJet 8000 & SupportPack	06-00-40	2044.09	➧	➧	2049.00	
LaserJet 8000N	69-95-52	1632.45	➧	➧	1639.00	✂
LaserJet 8000N & SupportPack	06-00-57	2219.66	➧	➧	2225.00	
LaserJet 8000DN	69-95-69	1917.31	➧	➧	1925.00	✂
LaserJet 8000DN & SupportPack	06-00-64	2512.96	➧	➧	2519.00	
LaserJet 8000MFP	69-17-51	4791.16	➧	➧	4795.00	NEW
LaserJet 8000MFP & SupportPack	06-70-47	5295.00	➧	➧	5295.00	NEW
ACCESSORY & CONSUMABLE						
Action Printer Starter Kit	05-02-18	96.26	99.95	98.95	97.96	
Toner Cartridge LaserJet 8000 Series C3909A	22-14-25	101.45	➧	102.95	102.45	

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW item on this page

LASER PAGE PRINTERS



HEWLETT PACKARD
TAKE COVER
See page 432

HEWLETT PACKARD HELPLINE
08701 66 99 77

The **HP LaserJet 8100 Series** expands the capabilities of departmental network printers with a dynamic combination of high performance, unmatched versatility and cost effectiveness. The HP LaserJet 8100 exceeds end-user expectations by delivering improved high resolution graphics, faster output speed, versatile paper handling, minimum printer interaction and exceptional reliability in network and non-network environments.

FEATURES:

- 32ppm for fast printing.
- HP Transmit Once and Multiple Original Prints (MOPying) – enables the user to send a single command and receive multiple original copies.
- Up to 3,100 pages input capacity for minimum paper refills.
- HP JetSend enables two devices to connect and exchange information transparently without drivers or print servers.
- 16MB memory as standard.

Model	HP LaserJet 8100	HP LaserJet 8100N	HP LaserJet 8100DN
Output	32ppm		
Printer language	HP PCL 5e, PCL 6 and PostScript Level 2		
RAM	16MB		24MB
Resolution	1200dpi		
Interfaces	Bi-directional, IEEE 1284 compliant parallel	HP JetDirect Ethernet 10/100TX, Ethertalk, IEEE 1284-compliant parallel	
Cables	See pages 569–575		
Fonts	80 scaleable TrueType built-in, 65 additional scaleable typefaces on disk		
Input trays	Up to 3100 sheets		
Output trays	500 sheets		
Dimensions (W × D × H)	566 × 540 × 520mm		
Weight	51kg		
Warranty	12 months on-site (upgradable to 3 years with HP SupportPack)		

visit www.action.com/hp

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
✂	LaserJet 8100	25-98-13	1678.27	◗	◗	1685.00
	LaserJet 8100 & SupportPack	06-35-42	2273.53	◗	◗	2279.00
✂	LaserJet 8100N	26-00-08	1867.51	◗	◗	1875.00
	LaserJet 8100N & SupportPack	06-34-01	2453.10	◗	◗	2459.00
✂	LaserJet 8100DN	26-00-15	2141.78	◗	◗	2145.00
	LaserJet 8100DN & SupportPack	06-33-84	2742.41	◗	◗	2749.00
NEW	LaserJet 8100MFP	26-12-47	4996.50	◗	◗	4999.00
NEW	LaserJet 8100MFP & SupportPack	06-08-59	5695.00	◗	◗	5695.00
	ACCESSORY & CONSUMABLE					
	Action Printer Starter Kit	04-22-63	113.39	◗	117.45	116.28
	Black Toner Cartridge	23-11-23	117.32	◗	119.95	118.75

DON'T FORGET YOUR CONSUMABLES

OTHER ITEMS
FOR ORIGINAL PRINTER SUPPLIES SEE PAGES 976–979
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRINTER ACCESSORIES

HEWLETT PACKARD Business Reseller

hp invent

HEWLETT PACKARD HELPLINE 08701 66 99 77

HP PART NO	DESCRIPTION	FOR USE WITH	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
C4135A	4MB EDO DRAM DIMM	LJ2100, 4000, 4050, 5000, 8000	41-39-89	28.63	29.95	29.65	29.35	
C4136A	8MB EDO DRAM DIMM	LJ2100, 4000, 4050, 5000, 8000	67-91-01	63.04	65.95	65.29	64.64	
C4137A	16MB EDO DRAM DIMM	LJ2100, 4000, 4050, 5000, 8000	41-34-53	113.88	◗	117.95	116.77	
C2950A	2M IEEE-1284 Type B Parallel Cable	LJ5L/5Si/MX	79-39-15	7.41	7.75	7.67	7.60	✂
C2951A	3M IEEE-1284 Type B Parallel Cable	LJ5L/5Si/MX	79-39-22	9.07	9.49	9.40	9.30	✂
C3115A	250 Sheet A3 Paper Tray	Color LaserJet	95-15-44	91.71	95.95	94.99	94.04	
C7843A	16MB SDRAM	LaserJet 4000	68-19-79	115.81	◗	119.95	118.75	
C4143A	32MB SDRAM	LaserJet/ Color LaserJet	68-19-86	193.05	◗	199.95	197.95	
C4785A	Multibin Mailbox	Mopier/Color LaserJet 8000/8100	24-24-73	841.40	◗	864.95	856.30	
C4782A	Auto Duplex	Mopier/8000 Series	25-59-10	308.90	◗	319.95	316.75	
C4785A	8-BIN Mailbox Output	LJ4500, 5m, 8000, 8100	24-24-73	841.40	◗	864.95	856.30	
C4144A	250 sheet feeder	HP LaserJet 5000	24-31-42	149.60	◗	154.95	153.40	
C4115A	500 sheet feeder	HP LaserJet 5000	25-40-83	212.36	◗	219.95	217.75	
C4113A	Duplex Unit	HP LaserJet 5000	24-04-99	304.08	◗	314.95	311.80	✂
C4793A	250 Sheet Paper Tray	LJ2100 Series	52-95-69	109.05	◗	112.95	111.82	
C3098A	HP PostScript Emulation DIMM	LaserJet Range	22-50-14	125.46	◗	129.95	128.65	
C4787A	Multibin Mailbox with Stapler	LJ8000/Mopier	25-76-02	1109.35	◗	◗	1129.00	
C4783A	HP Tabletop Mailbox	LJ8000/8100/Mopier	25-75-85	505.79	◗	519.95	514.75	
C4784A	HP Mailbox Stand	LJ8000/8100/Mopier	25-75-92	95.53	99.95	98.95	97.96	
C4781A	HP 2000 Sheet Input Tray	LJ8000/8100/Mopier	25-39-81	627.51	◗	649.95	643.45	
C3765B	HP Envelope Feeder	LJ8000/8100/Mopier	24-24-97	285.73	◗	295.95	292.99	
C4123A	Duplex Unit	LJ4000/4050	67-72-82	212.36	◗	219.95	217.75	
C4124A	500 sheet optional feeder	LJ4000/4050	41-57-43	186.29	◗	192.95	191.02	
C4122A	75 sheet power envelope feeder	LJ4000/4050	68-20-64	193.05	◗	199.95	197.95	

visit www.action.com/hp

OTHER ITEMS

FOR HP PRINTERS SEE PAGES 388–396, 398–399, 416–422, 428, 429
FOR HP SUPPORTPACKS SEE PAGES 424, 425
FOR GUIDE TO LASER PRINTING SEE PAGE 404

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

SUPPORTPACKS

As a three year on-site warranty for all **Hewlett-Packard** products, the **HP SupportPack** is the most cost effective way to protect yourself from the risk of high repair costs (from just 26 pence per week!). Should you experience a problem with your printer, simply call HP who will provide same day or next day response, between 9am and 5pm Monday to Friday, from highly trained Hewlett-Packard engineers. Service is provided on-site and includes all parts replacement, labour and repair costs.

- 3 complete years of quality on-site hardware support from date of pack registration.
- European Support.
- Prompt, efficient response (4 hour response for HP's LaserJet 5Si).
- 9am-5pm 5-day cover.
- 7 day, 24 hour fault call logging.
- Simple administration – call HP direct, they do the rest!
- Excellent value for money – absolutely no hidden costs.

THE SUPPORTPACK MUST BE PURCHASED WITHIN 90 DAYS OF THE PRODUCT PURCHASE DATE.

visit www.action.com/hp

DESCRIPTION	PRODUCTS COVERED	CAT NO	PRICE £ (EX. VAT)
H5461A	DeskJet 610, 695, 720, 815, 420C, 710C, 880, 895, 970C +350	77-29-12	39.95
H5465A	200LX Palmtop, Jornada 420, DJ890, 1120C, Scanjet 3200, 4100, 4200, 6200	96-00-85	49.95
H5470A	CAPSHARE 910, 920	77-05-50	79.95
H5471A	HP 620LX, LaserJet 3100	81-58-17	102.95
H5473A	LJ1100, 1100A	71-58-90	81.95
H5475A	Jornada 820/e	72-47-64	138.95
H5476A	Omnibook 4150, 4100	71-59-17	117.00
H5479A	LaserJet 4000, 4050, 5000 Series	71-53-02	179.95
H5480A	HP Vectra VE PC (Next day on-site)	72-96-04	104.95
H5483A	HP BRIO (Next day on-site)	79-61-18	109.95
H5464A	HP Displays, Monitors and Terminals	52-19-73	47.95
H5492A	LaserJet 8000 Series, 8100 series, 4500 (Same day)	71-59-48	659.00
H5491A	LaserJet Color 4500 series, 8000, 8100	29-42-56	499.95
H5549A	LaserJet Color 8500 series +8550	29-42-63	799.00
H2702A	HP Vectra VE, VL600 PC 4 HR	29-42-94	289.95
H5759A	HP PC Installation (Same day)	29-43-04	89.95
H5462A	Fax 910, 920	36-20-47	45.95
H5467A	R45/65, T45/65, HP OfficeJet 635/700, PhotoSmart	68-59-44	72.95
H5715A	48hr Rapid repair for Omnibooks 900, 4150 Lite	45-85-35	230.00
H5703A	48hr Rapid repair for Omnibooks 4150, 800CS/CT	45-85-59	155.95
H5651A	DesignJet 450, 455, Digital Sender	29-53-34	264.95
H5478A	HP LaserJet 2100 series	29-60-27	134.95
H5650A	HP DesignJet 430, CD-ROM Tower 7+	25-68-09	269.00
H5729A	HP DesignJet 750, 755	29-60-65	624.95
H5655A	HP DesignJet 1050 series	29-36-83	895.95
H5509A	HP Kayak PC Workstation (Next day on-site)	29-17-71	119.00
H2691A	HP Color 8500 LJ +8550 (Same day)	29-17-60	1495.00







*4 Hour R

OTHER ITEMS

FOR HP PRINTERS SEE PAGES 388–399, 416–422, 428–429

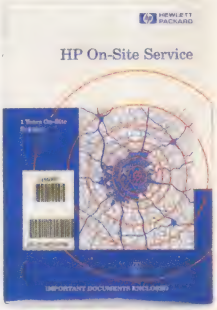
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

SUPPORTPACKS

HP REF.	PRODUCTS COVERED	CAT NO	PRICE £ (EX. VAT)
H3683A	DJ 340, 1120C, 890+DJ350	29-53-62	39.95
H3678A	HP 2000 Pro/2500 Series Colour Printer	29-94-83	102.00
H3666A	SJ 3200, 3300, 4200, 5200, 6250, 6300, 6350	29-17-27	81.00
H2768A	HP BRIO 4HR	29-70-28	269.00
H2748A	HP KAYAK Workstation 4HR	29-22-70	299.00
H2848A	Omnibook 900, 2100, 4150	29-49-54	145.00

ON-SITE SERVICE PACKS

Hewlett-Packard now offer **On-Site Service Packs** as an addition to their range of SupportPacks. These packs offer a 12 month On-Site hardware maintenance service for HP PCs and Printers which are not covered by the standard SupportPacks offered on the previous page.
The service provided is for UK Mainland only and is available Monday to Friday, 9am to 5pm excluding public holidays.



The HP On-Site Service is for:

- Products not on the current HP SupportPack Price List.
- Products out of the original Warranty Period.
- Products at the end of the Diamond Edge or SupportPack Life.
- Current HP Products which are outside of the 30 day applications period for SupportPack.
- Packs H5606P & H5607P offer same day response. All others are next day.

visit www.action.com/hp

HEWLETT PACKARD Business Reseller

HELPLINE 08701 66 99 77





HP REF.	PRODUCTS COVERED	CAT NO	PRICE £ (EX. VAT)
H5600P	HP DJ 340, Mono 400 Series, 420C+DJ350	95-19-60	33.95
H5601P	HP Colour/ScanJet Mono, DJ660, DJ690, LJ5L, DJ600, DJ695	95-19-77	49.95
H5602P	HP LaserJet 5P, 5MP, 6P, 6MP versions/DJ1200C/M, 850, 870	95-19-84	83.95
H5603P	HP Vectra PC, 500/XM, VE, DJ1600C/M, LJ 4000/5000 series	95-19-91	139.00
H5604P	HP LaserJet 4, 4M, 4+/4M+/4V/4MV, 5/5M/5N/, OfficeJet LX, 1150C	95-20-00	149.00
H5605P	HP LaserJet and HP Vectra PC, DJ300 Series	95-20-17	259.95
H5606P	HP Vectra Server 486T, ST, ST, Netserver LC, LF, LH, Laserjet 5Si	95-20-24	397.95
H5607P	HP LaserJet 3Si, 4Si	95-20-48	479.95
H5608P	HP DesignJet 750/755, Colour Laserjet 5/N/M	85-24-85	489.95

OTHER ITEMS

FOR HP DESKTOP PCs SEE PAGES 137–144
FOR HP SERVERS SEE PAGES 180, 181
FOR HP PRINTERS SEE PAGES 388–396, 398, 399, 416–422, 428, 429

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

GUIDE TO COLOUR PAGE PRINTERS

THE WONDERFUL WORLD OF COLOUR PAGE PRINTING

The colour page printer market is currently booming. With cheaper purchase prices, low running costs, faster print speeds and near photographic print quality, can you seriously afford to be without colour?

COLOUR MARKET TRENDS

Over the last couple of years, colour printing has increased dramatically. This has mainly been spurred on by the inkjet. It's low purchase price made colour desktop printing affordable to a wide audience. Inkjet technology claimed around 96% of the colour market in 1996 and grew by 91% in 1995 and 126% in 1996 (source Romtec).
However, as dramatic as this growth is, colour page printers have seen even greater growth.

BOOM OR BUST?

So why this boom in colour page printing? More business are becoming increasingly aware of the benefits of colour printing. It is argued that graphic designers, marketeers and advertisers have always realised the value of colour on a document. Studies have shown that people are 70% more likely to retain data presented to them in colour. It's good to talk – in colour.
But businesses have shied away from colour page printers in the past, opting for inkjets. But why? Colour page printers have traditionally been associated as being slow, large, expensive to maintain and cumbersome machines. Not any more. In 1992 the world's first desktop colour page printer was introduced to the market, by QMS, at a list price of £10,000. The user is now spoilt for choice, with other models available from companies such as Xerox, Hewlett-Packard, Brother, OKI, QMS, Minolta, Tektronix, and the Lexmark Optra 1200 which can produce up to A3 colour.
Monocomponent toner cartridges, cheaper purchase price and less consumables with higher yields have significantly helped reduce the cost per copy. A typical cost per copy for an inkjet at 5% colour coverage would set you back between 14 and 18 pence. A colour laser would cost around 3 pence per print. Such costings then beg the question "how many prints at 5% coverage will it take to make it cost less than an inkjet including capital cost?" Answer, 5000 prints.

FLEXIBLE COLOUR PRINTING

Although these dramatic fall in prices for colour page printers have helped boost sales, it has not been the only factor to influence the growth in the market. More significantly, it has been their versatility that has impressed business users. Good colour lasers today have networking and PostScript capabilities, internal hard disks for job spooling and font storage, fast print speeds, especially the first page out, colour photocopying capabilities, high print quality and double sided printing.
But as more printers are being shared across a network and more users have access to printers, it is essential that this is managed. Printer manufacturer's provide an easy to use software network utility which allows remote managing and the monitoring of printers from your desktop. Some take this a step further by monitoring the amount of toner left in per cartridge and also works out the cost per print. This allows businesses to accurately manage their stock levels and print jobs and enable them to cross charge other organisations or departments.

THE WINNERS

Colour lasers suit a whole range of different printing environments. In the graphic arts industry, colour output is an important tool for proofing and presenting concepts and designs. Bright colour attracts the client's attention and reflects professionalism and credibility. Accurate, high-quality colour ensures that what you see now is what you'll see in the final printed piece. And affordable colour makes it available, everyday.
Business organisations, whether large or small also gain from colour lasers. In the past, some companies felt colour was too expensive, difficult to use, or not hearty enough for multi-user printing. Colour page printers abolish these boundaries, making colour more accessible, more affordable and much simpler than in the past. For the business workgroup, this means printing in colour everyday. For documents that don't require colour, colour page printers can now produce black and white output at a cost-per-page that rivals mid-range monochrome printers.
Enjoy the current crop of colour laser printers, bearing in mind that there has never been a better time to invest in a colour page printer.

OTHER ITEMS FOR LASER COLOUR PRINTERS SEE PAGES 427–437

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

COLOUR PAGE PRINTERS – LED/LASER OKI EPSON®



The **OKIPAGE 8c Plus** enables fast colour printing at eight pages per minute. With a choice of four colour management systems and the excellent paper handling capacity. The OKIPAGE 8c Plus produces true 600 × 600dpi resolution. It's powerful memory capability ensures that it has no problem dealing with your digital images or business graphics. Ethernet version also available.

FEATURES:

- LED 8ppm colour page printer.
- True 600 × 600dpi resolution.
- 32 seconds to first print.
- Standard 32MB (80MB on 8c Plus/N).
- 4 colour management systems.
- 200MHz MIPS R5000 RISC processor.
- Unique colour tandem engine.



The **EPSON EPL-C8200** is a high quality powerful colour laser printer with an engine speed of 4ppm colour and 16ppm black and white. The in-built 200MHz RISC controller provides an effective 2400dpi resolution on paper sizes up to A3W. The EPL-C8200 is pre-configured with in-built 10/100Base-TX networking and 64MB of RAM expandable up to 256MB.

FEATURES:

- 600 × 600dpi.
- Print speed up to 4ppm colour, 16ppm mono.
- Paper handling up to A3W with full bleed.
- In built 10/100Base-TX Ethernet networking.
- 64MB upgradable to 256MB.

visit www.action.com/epson

Model	OKIPAGE 8c Plus	EPSON EPL-C8200
Output	8ppm mono, 8ppm colour	16ppm mono, 4ppm colour
RAM	32MB (80MB in OKIPAGE 8c Plus/n)	64MB (upgradable to 256MB)
Resolution	600 × 600dpi	
Interfaces	Bi-directional parallel, IEEE 1284-compliant; Internal Serial Interface RS232-C	Ethernet 10/100Base-TX, IEEE 1284 bi-directional Parallel
Cables	See pages 569-575	
Paper Input	250 sheets face down	150 sheet multi-purpose tray
Dimensions (W × D × H)	478 × 622 × 396mm	560 × 562 × 313mm
Weight	50kg	17.5kg
Warranty	12 months on-site	

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
OKIPAGE 8c Plus	45-97-54	1588.63	➧	➧	1595.00
OKIPAGE 8c Plus/n	45-97-61	1722.09	➧	➧	1729.00
EPSON EPL-C8200PS	53-78-06	3044.12	➧	➧	3049.00
EPSON EPL-C 8200PST	64-78-15	3788.93	➧	➧	3795.00

ACCESSORIES	FOR USE WITH					
Action Printer Starter Kit	OKIPAGE 8c	06-30-78	18.11	18.95	18.76	18.57

OTHER ITEMS

FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR LASER ACCESSORIES SEE PAGES 438–439

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

COLOUR PAGE PRINTERS – LASER



The **HP Color LaserJet 4500** is the workgroup colour laser printer which produces amazing professional looking documents efficiently and at a great price and performance. The HP Color LaserJet 4500 is ideal for medium-sized and corporate businesses who require a low purchase price colour laser printer which is easy to support, provides long-life consumables and has an extensive duty cycle. With increased reliability and speed, the HP LaserJet 4500 enables end users to create a clearer impact – when presenting high-level financial analysis, management reports and presentation packs, for example.

FEATURES:

- 16ppm mono speed printing, 4ppm colour.
- Up to 128MB memory capable of printing colour-intensive files at high speed.
- HP JetAdmin and Web JetAdmin software provides easy set up, remote access, remote management and real-time diagnostics in a mixed platform network environment.
- 2 EIO Slots for fast data transfer and modular expansion.
- 900 sheet input tray.
- Prints on a wide variety of paper and media.

Model	4500	4500N	4500DN
Output	16ppm mono; 4ppm colour		
Emulations	HP Color PCL5 and emulated PostScript Level 2		
RAM	32MB	64MB	
Resolution	600 × 600dpi		
Interfaces	IEEE-1284 parallel C-connector standard, 2 EIO slots		
Cables	See pages 569-575		
Fonts	110 scaleable True Type		
Paper Input	1 × 250 sheets		
Paper Output	250 sheets face down		
Dimensions (W × D × H)	500 × 570 × 380mm		
Weight	50kg		
Warranty	12 months on-site (upgradable to 3 years with HP SupportPack)		

HEWLETT PACKARD
TAKE COVER
Buy HP SupportPack
See page 432

HEWLETT PACKARD HELPLINE 08701 66 99 77

visit www.action.com/hp

DON'T FORGET YOUR CONSUMABLES

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Color LaserJet 4500	25-98-20	1484.05	◗	◗	1490.00
Color LaserJet 4500 & SupportPack	06-33-91	1928.77	◗	◗	1949.00
Color LaserJet 4500N	25-98-37	1755.91	◗	◗	1762.95
Color LaserJet 4500N & SupportPack	06-61-61	2243.61	◗	◗	2249.00
Color LaserJet 4500DN	25-98-44	2276.53	◗	◗	2279.95
Color LaserJet 4500DN & SupportPack	06-61-78	2772.34	◗	◗	2779.00
ACCESSORIES					
Action Printer Starter Kit	04-49-47	51.57	53.95	53.41	52.88
500 Sheet Feeder	29-48-47	317.64	◗	329.00	325.71
Auto Duplex Unit	29-48-30	320.96	◗	329.95	326.65

OTHER ITEMS
FOR HP SUPPORTPACKS SEE PAGES 424–425

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

COLOUR PAGE PRINTERS – LASER

The **HP Color LaserJet 8550 Series** is simply the best high-volume colour laser printer HP have ever offered. It's designed for fast and efficient in-house delivery of all your colour and black and white documents at a great price/performance. With the HP Color LaserJet 8550, you can print professional, compelling full colour sales material such as fliers, datasheets and A3 posters to send to your customers. With HP's range of paper handling devices, your documents can be stapled, stacked or just simply sorted. In addition, the DBH-80H Duplo Booklet Maker – an optional paper handling accessory from HP Partner Duplo – can be connected to produce finished, folded and stapled booklets.



FEATURES:

- A3 size full colour spreadsheets.
- 24ppm mono, 6ppm colour printing speeds.
- Fast throughput for complex files.
- 200MHz processor.
- Widest range of media types and sizes.
- Four configurations available: 8550, 8550N, 8550DN and 8550GN.
- 12 months on-site warranty (upgradable to 3 years with HP supportPack).

HEWLETT PACKARD HELPLINE 08701 66 99 77

Model	8550	8550N	8550DN	8550GN
Output	24ppm mono, 6ppm colour			
Emulations	Adobe PostScript 3 and HP PCL5c			
RAM	32MB	64MB		128MB
Resolutions	600 × 600dpi			
Interfaces	Bi-directional IEEE 1284 parallel	Bi-directional IEEE 1284 parallel, 10/100Base-TX		
Cables	See pages 569–575			
Fonts	45 scalable HP FontSmart built-in, 136 scalable Adobe PostScript Type 1			
Paper Input	1 × 100 sheet multi-purpose	1 × 100 sheet multi-purpose, 2 × 500 sheet tray	1 × 200 sheet multi-purpose, 2 × 500 sheet, 1 × 2000 sheet high capacity	
Paper Output	500 sheets face down			
Dimensions (W × D × H)	668 × 714 × 1060mm		659 × 687 × 1238mm	
Weight	101.2kg		112.5kg	
Warranty	12 months on-site (upgradable to 3 years with SupportPack)			

visit www.action.com/hp

DON'T FORGET YOUR CONSUMABLES

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Color LaserJet 8550	53-01-14	2981.83	▶	▶	2989.00	NEW
Color LaserJet 8550N	22-52-59	3673.12	▶	▶	3679.00	NEW
Color LaserJet 8550DN	12-11-56	4797.55	▶	▶	4799.95	NEW
Color LaserJet 8550GN	53-01-34	5679.00	▶	▶	5679.00	NEW
ACCESSORIES						
Action Printer Starter Kit 8500 Series	04-31-38	63.04	65.95	65.29	64.64	NEW

OTHER ITEMS

FOR HP SUPPORTPACKS SEE PAGES 424–425

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶ Save £££'s!
▶▶ Check live stock
▶▶ Track order status

NEW item on this page

COLOUR PAGE PRINTERS– LASER

brother



The **Brother HL-2400Ce** colour laser printers provide high quality, high speed colour output plus a host of unique printing capabilities. Boasting a huge array of network features and memory capabilities, starting with the HL-2400CeN 64MB.

FEATURES:

- Up to 2400dpi Class Colour printing with CAPT.
- Up to 8ppm in colour.
- Up to 16ppm in mono.
- Low cost per copy.
- PCL5c emulation (colour).
- PCL6 emulation (mono).
- PostScript Level 2 language emulation.
- 167MHz RISC Processor.
- 32MB standard memory — upgradable to 288MB.
- Forms and font storage on optional PCMCIA card.

visit www.action.com/brother

Model	HL-2400Ce	HL-2400CeN
Output	16ppm mono, 4ppm colour	
Emulations	PCL5C, PCL6, PostScript Level 2, EPSON FX-850, IBM Proprinter XL, HP-GL, Automatic emulation switching	
RAM	32MB (upgradable to 288MB)	
Resolution	1200 × 600dpi, 2400dpi Class with CAPT	
Interface	IEEE-1284 Parallel (ECP), RS-232C, optional NC-3100h for Ethernet connectivity, optional MIO slot for a Token	IEEE 1284 Parallel (ECP), RS-232C, optional NC-3100h (Standard for HL-2400CeN) for Ethernet connectivity, optional MIO slot for a Token
Cables	See pages 569–575	
Fonts	72 resident scalable fonts, 12 bitmap fonts, 11 barcodes (PCL), 66 scalable fonts	
Paper Input	250-sheet tray standard	
Paper Output	250 sheets face down	
Dimensions (W × D × H)	500 × 490 × 388mm	
Weight	32kg	
Warranty	12 months on-site	

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	HL-2400Ce	22-52-78	1094.61	➧	➧	1099.00
NEW	HL-2400CeN 64MB	12-11-68	1244.01	➧	➧	1249.00
NEW	HL-2400CeN 260MB	38-30-54	1353.57	➧	➧	1359.00

DON'T FORGET YOUR CONSUMABLES

	ACCESSORY & CONSUMABLES	FOR USE WITH					
NEW	Action Printer Starter Kit	HL-2400 Series	04-49-75	931.49	➧	➧	1000.00
	Black Toner Cartridge	HL-2400 Series	11-41-30	76.42	79.95	79.15	78.36
	Cyan Toner Cartridge	HL-2400 Series	11-41-47	64.48	66.95	66.28	65.62
	Magenta Toner Cartridge	HL-2400 Series	11-41-54	63.99	66.95	66.28	65.62
	Yellow Toner Cartridge	HL-2400 Series	11-41-61	63.99	66.95	66.28	65.62

OTHER ITEMS

FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR LASER ACCESSORIES SEE PAGES 438–440

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

COLOUR PAGE PRINTERS – LASER

LEXMARK

Introducing **Lexmark's** ultra-fast **A3 colour page printer.** The **OptraColor 1200** at 12ppm in A4, is the fastest A4 colour page printer available today.

Industry leading performance:

- Full colour and mono A4 printing at 12ppm
- Full colour and mono A3 printing at 6ppm
- High speed 64-bit 200MHz RISC processor
- 1200 Image Quality and 600 × 600dpi resolution
- PostScript level 2, PCL5c and PCL6
- Up to 850-sheet input capacity
- Simultaneous support for all major network environments

The **SC1275/n** A4 colour laser printer offers class beating performance at a budget price. A stand alone SC1275 and network versions are available.

MarkVision utilities for feedback on job status and printer configuration.

MARKVISION



45-83-22

Model	OptraColor 1200	OptraColor 1200n	Optra 1275/1275N
Output	12ppm A4 colour & mono; 6ppm A3 colour & mono		3ppm col/12ppm black
Printer language	PostScript level 2, PCL6, PCL5c		
RAM	32MB (128MB total option)	64MB (128MB total option)	16MB/32MB (192MB total option)
Resolution	1200dpi class, 600 × 600dpi		600 × 600dpi
Interfaces	High speed bi-directional	HS bi-directional, 10BT/100BT ethernet	Parallel/Ethernet (1275N)
Optional	Ethernet, Token Ring, Twinax, Coax, Triport LocalTalk adaptor	Token Ring, Twinax, Coax Triport LocalTalk adaptor	Ethernet, Token Ring, Twinax, Coax, Triport LocalTalk adaptor
Cables	See pages 569-575		
Fonts	75 scalable fonts, 2 bitmap		
Input trays	250 sheet, 1 × 100 multi-purpose (2 × 250 sheet option)	2 × 250 sheet, 1 × 100 multi-purpose (1 × 250 sheet option)	250 & 150 input (1 × 250 sheet option
Dimensions	555 × 670 × 303mm	555 × 670 × 401mm	502.9 × 527.1 × 403.1mm
Weight	51kg	63kg	35kg
Warranty	12 months on-site		

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
OptraColor 1200	45-83-22	3343.64	➧	➧	3349.00	
OptraColor 1200n	45-83-39	3895.10	➧	➧	3899.00	✂
Optra SC1275	25-89-62	898.05	➧	912.95	907.47	✂
Optra SC1275N	45-24-45	1236.04	➧	➧	1249.00	✂
ACCESSORY & CONSUMABLES						
Action Printer Starter Kit	06-33-39	76.58	85.95	83.37	80.87	
Cyan toner cartridge	23-12-40	84.06	87.95	87.07	86.20	
Magenta toner cartridge	23-12-57	83.11	86.95	86.08	85.22	
Yellow toner cartridge	23-12-64	84.06	87.95	87.07	86.20	

DON'T FORGET YOUR CONSUMABLES

OTHER ITEMS

FOR OFFICE PRODUCTS SEE PAGES 459–540
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW item on this page

COLOUR PAGE PRINTERS – LASER

Tektronix COLOUR PRINTERS BY XEROX



The award-winning **Phaser 740P** is a robust processing power for all your applications. Flexible paper handling to expand your horizons. With built-in networking capabilities to increase efficiency. True 1200×1200dpi resolution for rich, crisp prints. The high performance processor delivers blazing-fast processing and print speeds of 16ppm black and 5ppm colour. The **Phaser 750** uses fifth generation colour laser technology to bring affordable, dependable colour to workgroups of all sizes. The Phaser 750 comes complete with 10/100BaseT Ethernet, quick USB and bi-directional parallel and serial interfaces. A Token Ring network card is optional. Multi-protocol support allows simultaneous connection to a variety of networks including Windows NT, Mac OS, Unix and OS/2.

The **Phaser 780** is our A3 colour laser. The 780 delivers the precise colour your applications demand. Genuine Adobe PostScript 3 assures efficient paper handling and advanced future compatibility. High-performance print speeds and automatic colour calibration ensures correct colour from start to finish.

Model	Phaser 740P	Phaser 750 Series	Phaser 780 Series
Output	16ppm mono, 5ppm colour		16ppm mono, 4ppm colour
RAM	128MB	64MB (750N), 96MB (750P), 128MB (750DP/DX); all upgradable to 256MB	32MB (780N), 64MB (780GN), 128MB (780P); all upgradable to 192MB
Resolution	1200×600dpi	Up to 1200×1200dpi	
Interfaces	10Base Ethernet, Bi-directional parallel, USB	10/100BaseT Ethernet, USB, Bi-directional parallel	10BaseT Ethernet, Bi-directional parallel, SCSI (780P)
Cables	See pages 569-575		
Fonts	136 resident		
Paper Handling	200 sheet paper tray	250 sheet paper tray, 100 sheet multi-purpose tray (standard on 750DP and 750DX)	150 sheet multi-purpose tray, 250 sheet universal tray
Dimensions	435×600×369mm	507×492×463mm	728×490×641mm
Weight	35.8kg	43kg	68.4kg
Warranty	12 months on-site		

PC MAGAZINE EDITORS' CHOICE — EDITORS' CHOICE Macworld ★★★★ — networking industry awards

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
✂	Phaser 740P	26-09-74	1315.21	◗	◗	1329.00
NEW	Phaser 750N	22-52-91	1523.03	◗	◗	1539.00
NEW	Phaser 750P	22-12-48	1829.81	◗	◗	1849.00
NEW	Phaser 750DP	22-98-33	2273.53	◗	◗	2279.00
NEW	Phaser 750DX	22-53-53	2742.41	◗	◗	2749.00
✂	Phaser 780N	26-10-52	3569.28	◗	◗	3575.00
	Phaser 780GN	26-10-69	4591.32	◗	◗	4595.00
	Phaser 780P	26-10-76	5295.00	◗	◗	5295.00
	ACCESSORIES	**FOR USE WITH**				
	Action Printer Starter Kit	750 series	04-36-80	42.92	50.00	48.00	46.08
	Action Printer Starter Kit	780 Series	04-98-33	66.43	69.50	68.81	68.12
NEW	Tekcolor 3 years on-site warranty	750 Series	29-76-60	582.69	◗	599.00	593.01
	Tekcolor 3 years on-site warranty	780 Series	29-55-09	1079.87	◗	◗	1099.00

OTHER ITEMS

FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR LASER ACCESSORIES SEE PAGE 438–440

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

SOLID INK PRINTERS – COLOUR

Tektronix COLOUR PRINTERS BY XEROX

The **Phaser 850** is a winning combination of speed and quality with print speeds of up to 14ppm full colour. The 850 printer can keep up with the busiest most demanding workgroups on the network with the first page out typically 10 seconds.
With up to 1200dpi resolution and the most consistent colour quality, this solid ink technology delivers brilliant colour quality page after page, job after job, day after day.

MAIN FEATURES:
- Duplex Printing.
- 100 Base-T Card.
- Adobe PostScript Level 3 standard.
- Free black ink.

FREE BLACK INK (For the life time of the printer)


66-76-60

Model	850N	850DP	850DX
Output	14ppm colour		
RAM	32MB	64MB	128MB
Resolution	800dpi	1200dpi	
Interfaces	100Base-T Ethernet, Bi-directional Parallel, USB		
Cables	See pages 569–575		
Fonts	136 Resident fonts		
Dimensions (W × D × H)	435 × 600 × 369mm		
Weight	35.8kg		
Warranty	12 months on-site		

DON'T FORGET YOUR CONSUMABLES

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Phaser 850N	66-76-30	1974.29	➧	➧	1995.00
Phaser 850DP	57-39-28	2683.55	➧	➧	2690.00
Phaser 850DX	35-20-38	3489.41	➧	➧	3495.00
CONSUMABLES					
Cyan Color Stix Ink (2 cyan + 1 black)	23-17-34	54.43	56.95	56.38	55.82
Magenta Color Stix Ink (2 magenta + 1 black)	23-70-34	54.43	56.95	56.38	55.82
Yellow Color Stix Ink (2 yellow + 1 black)	23-94-91	54.43	56.95	56.38	55.82
A4 90 g/m² Premium Colour Printing Paper (500 sheets)	41-06-52	23.08	24.15	23.91	23.67
A4 160 g/m² Premium Cover Paper (100 sheets)	46-94-87	22.89	23.95	23.71	23.47

OTHER ITEMS

FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR LASER ACCESSORIES SEE PAGES 438–439

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

COLOUR PAGE PRINTERS — LASER

QMS MINOLTA



53-00-83

DON'T FORGET YOUR CONSUMABLES

For easy colour printing that means business, turn to the **QMS Magicolor 2+**. This all-purpose workgroup performer prints at top speed, 4-8 pages per minute in colour, up to 16ppm in black and white, handling high priority jobs in a flash. And it is equipped with a 10Base-T/100Base-TX Ethernet interface for quick set up and rigorous use in today's busy offices. It also includes standard PostScript, PCL 6 and PDF emulations for seamless printing from practically any application. And it has convenient printing and job management tools such as Web-based status and configuration, job completion or error notification, direct PDF printing, job accounting and supplies tracking that makes printing effortless for network administrators and printer users alike.

FEATURES:

- 150MHz RISC processor.
- Up to 2400 × 600dpi resolution.
- Up to 384MB RAM.
- PostScript Level 2, HP-PCL6 and PDF.
- Up to 500 sheets paper input.
- Network interface standard.
- Automatic 2-sided printing on duplex model.

Model	Magicolor 2+CXE	Magicolor 2+GXE	Magicolor 2+EXE	Magicolor 2+EXD
Output	Up to 16ppm mono; 4-8ppm colour			
RAM	32MB (upgradable to 384MB)	80MB (upgradable to 384MB)		192MB (upgradable to 384MB)
Resolution	600 × 600dpi	2400 × 600dpi	1200dpi	
Interfaces	10Base-T/100Base TX, Bi-directional IEEE-1284 parallel, RS-232 Serial			
Cables	See pages 569–575			
Emulations	PostScript Level 2, PCL 6, HP-GL			
Paper Handling	250 sheets Universal Cassette; 250 sheets face down			
Dimensions (W×D×H)	500×570×388mm			500×570×547mm
Weight	30kg			45kg
Warranty	12 months on-site			

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Magicolor 2+CXE	53-00-83	1578.45	➧	➧	1595.00
Magicolor 2+GXE	22-52-28	1638.43	➧	➧	1645.00
Magicolor 2+EXE	12-11-38	1987.03	➧	➧	1995.00
Magicolor 2+EXD	38-30-25	2595.10	➧	➧	2599.00

OTHER ITEMS

FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR LASER ACCESSORIES SEE PAGES 438–439

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
»Save £££'s!
»Check live stock
»Track order status

COLOUR PAGE PRINTERS

QMS MINOLTA

The **QMS Magicolor 6100** is the large format colour designed specifically for today's office applications. It's fast — with speeds of up to 6ppm in colour and up to 24ppm in black and white — and includes features usually reserved for graphic arts and publishing. With support for page sizes up to 330 × 483mm and automatic duplexing capability, the QMS magicolor 6100 takes business printing to the next level. The printer's 1200 × 1200 dpi resolution and automatic colour control makes it easy to deliver rich colour and crisp text on a variety of media types including transparencies, labels and envelopes as well as variety of paper stock.


77-83-36

FEATURES:

- Up to 12ppm colour; 24ppm monochrome.
- 600 and 1200dpi resolution.
- Standard 10/100Base-TX Ethertnet interface.
- PostScript, HP PCL 6 and PDF emulations.
- Powerful 200MHz RISC processor.
- Up to 384MB RAM.
- Up to 1,250 sheets paper input.

Model	Magicolor 6100N	Magicolor 6100GN	Magicolor 6100EN	Magicolor 6100DP
Output	Up to 24ppm mono; 6-12ppm colour			
RAM	64MB (upgradable to 384MB)	192MB (upgradable to 384MB)		384MB
Resolution	1200dpi			
Interfaces	10Base-T/100Base TX, Bi-directional IEEE-1284 parallel, RS-232 Serial			
Cables	See pages 569–575			
Emulations	PostScipt Level 2, PLC 6, HP-GL			
Paper Handling	250 sheet standard cassette			250 sheet standard cassette, 2 × 500 sheet lower paper feeder units
Dimensions (W×D×H)	615×540×420mm			615×625×1150mm
Weight	66kg			
Warranty	12 months on-site			

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Magicolor 6100N	77-83-36	2591.11	◗	◗	2595.00
Magicolor 6100GN	37-00-34	2888.06	◗	◗	2895.00
Magicolor 6100EN	53-78-11	3393.56	◗	◗	3399.00
Magicolor 6100DP – Duplex	64-78-19	4791.16	◗	◗	4795.00
CONSUMABLES					
Black Toner Cartridge	23-53-67	95.53	99.95	98.95	97.96
Cyan Toner Cartridge	23-94-89	135.12	◗	139.95	138.55
Magenta Toner Cartridge	23-70-33	135.12	◗	139.95	138.55
Yellow Toner Cartridge	23-17-33	135.12	◗	139.95	138.55

DON'T FORGET YOUR CONSUMABLES

OTHER ITEMS

FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR LASER ACCESSORIES SEE PAGES 438–439

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

COLOUR PAGE PRINTERS – LASER

QMS MINOLTA



69-54-91

The ***magicolor* 2 DeskLaser Plus** offers full colour laser printing at 4 pages per minute and black and white prints at up to 16ppm. The *magicolor* 2 DeskLaser Plus prints on both sides of the paper. Two-sided printing combined with the speed and convenience of colour laser lends itself to the efficient production of colour reports, documentation, etc. Automatic two-sided printing is standard on the *magicolor* 2 DeskLaser Duplex. The *magicolor* 2 DeskLaser Plus is equipped with 24MB RAM and the DeskLaser Duplex with 48MB. With a standard parallel interface and Ethernet connectivity, large and small workgroups can share the benefits of colour laser printing.

FEATURES:

- 600 × 600dpi colour laser printer.
- Up to 64MB RAM.
- Standard integral duplexer on DeskLaser Duplex.
- Up to 16ppm mono, 4ppm full colour.
- Up to 2 × 250 sheets standard A4 paper input.
- 500 sheets standard input on DeskLaser Duplex.
- Network interface standard.

Model	magicolor 2 DeskLaser Plus	magicolor 2 DeskLaser Plus Duplex
Output	Up to 16ppm mono, up to 4ppm colour	Up to 8ppm mono, up to 2ppm colour
Resolution	600 × 600dpi	
Cables	See pages 569-575	
Memory	24MB (upgradable to 64MB)	48MB (upgradable to 64MB)
Interfaces	Ethernet (10Base-T), TCP/IP, Bi-directional IEEE 1284 parallel	
Input Capacity	250 sheet Universal cassette	250 sheet Universal cassette, 250 sheet Lower Paper feeder
Output Capacity	250 sheets face down	
Drivers	Windows 95/98 NT 4.0	
Dimensions (W × D × H)	500 × 490 × 388mm	500 × 570 × 547mm
Weight	41kg	55kg
Warranty	12 months on-site	

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Magicolor 2 DeskLaser Plus	69-54-91	1038.11	➧	➧	1049.00
Magicolor 2 DeskLaser Plus Duplex	47-12-50	1265.73	➧	➧	1279.00
CONSUMABLES					
Black Toner Cartridge	22-96-85	95.53	99.95	98.95	97.96
Cyan Toner Cartridge	22-96-92	88.84	92.95	92.02	91.10
Magenta Toner Cartridge	22-97-02	88.84	92.95	92.02	91.10
Yellow Toner Cartridge	22-97-19	90.75	94.95	94.00	93.06

DON'T FORGET YOUR CONSUMABLES

OTHER ITEMS

FOR OFFICE PRODUCTS SEE PAGES 459–540
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

COLOUR PAGE PRINTERS – LASER

Tally

The **T8004** is the ideal printer to get you started. Operating at up to 8ppm colour and 16ppm mono it is suitable for the busy office where a variety of applications are necessary. With 24MB full pages can be held in memory.
The **T8104/8104** + operate at 4ppm in full colour and 16ppm in mono. They provide excellent performance in both colour and mono printing. With PostScript and PCL as standard and memory upgrades of up to 384MB these printers can be used with all leading office and graphic design software packages.
The **T8204/8204** + are A3 colour printers operating at 4ppm in full colour and 16ppm in mono. They are fitted with a fast 150MHz processor, to deliver vibrant and precise colour in photo-realistic quality up to 1200 dpi.



Model	T8004	T8104 +	T8104	T8204	T8204 +
Columns	A4			A3	
Output	Up to 16ppm mono; up to 8ppm colour				
RAM	24MB	80MB	24MB	64MB	192MB
Resolution	600×600dpi	2400×600dpi	600×600dpi		1200×1200dpi
Emulations	Optimised for Win 95/98 and NT	PostScript Level 2, HP PCL5C/GL2, HP-GL 7475A/7550 DraftMaster and LinePrinter			
Cables	See pages 569–575				
Interfaces	Bi-directional Parallel Ethernet TCP/IP, (10Base-T)	Bi-directional Parallel for Windows Ethernet (10Base-T and 10Base-2F), TCP/IP, Ethertalk, RS232 serial		Bi-directional Parallel, Ethernet (10Base-T and 10Base-TX) support for Netware IPX/SPX; TCP/IP, EtherTalk, Windows 3.x, 95, 98 & NT, RS232 serial	
Input Tray	250 sheet universal cassette			150 multi-purpose feeder, 250 sheet universal cassette, ad-hoc manual duplexing	
Output Tray	250 sheets face down			250 sheets face down tray, 150 sheets face up tray	
Dimensions (W×D×H)	500×490×389mm	500×490×388mm		728×691×490mm	
Weight	28Kg	80Kg		68Kg	
Warranty	12 months on-site				

visit www.action.com/tally

Tally® *to Tally dedicated to printers*

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
T8004 Colour Laser	48-94-63	782.96	➧	795.95	791.17
T8104 Colour Laser	25-79-32	1532.92	➧	➧	1549.00
T8014+Colour Laser	25-79-49	1810.02	➧	➧	1829.00
T8204 A3 Colour Laser	47-53-46	2572.82	➧	➧	2579.00
T8204+A3 Colour Laser	47-94-79	3074.08	➧	➧	3079.00
CONSUMABLES					
Black Toner Cartridge	23-06-43	88.84	92.95	92.02	91.10
Cyan Toner Cartridge	23-06-50	76.42	79.95	79.15	78.36
Yellow Toner Cartridge	23-06-74	76.42	79.95	79.15	78.36
Magenta Toner Cartridge	23-06-67	76.42	79.95	79.15	78.36
Drum Unit	23-06-81	183.39	➧	189.95	188.05

DON'T FORGET YOUR CONSUMABLES

OTHER ITEMS

FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR LASER PRINTER ACCESSORIES SEE PAGES 438–440

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

THIRD PARTY PRINTER MEMORY UPGRADES

Additional memory will make your printer faster and only takes a matter of minutes.

Fully Compatible Matched Memory for Laser and Inkjet Printers.

The most popular printer upgrades are listed below as an alternative cost effective choice to the manufacturer's memory. All memory has a lifetime warranty and is guaranteed to be 100% compatible.

DESCRIPTION	UPGRADE SIZE	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
HP LaserJet II, IID	2MB Board	73-56-36	38.18	39.95	39.55	39.15
HP LaserJet II, IID	4MB Board	73-84-06	47.74	49.95	49.45	48.96
HP LaserJet III, IIID, IIP, IIP Plus, IIIP	2MB Board	73-53-13	33.41	34.95	34.60	34.25
HP LaserJet III, IIID, IIP, IIP Plus, IIIP	4MB Board	93-78-43	44.50	49.95	48.45	47.00
HP LaserJet 4, 4M, 4Si/MX, DeskJet 1200C	4MB Upgrade	73-52-89	13.33	13.95	13.81	13.67
HP LaserJet 4, 4M, 4Si/MX, DeskJet 1200C	8MB Upgrade	73-52-96	24.01	26.95	26.14	25.36
HP LaserJet 4L	1MB Card	73-52-58	20.02	20.95	20.74	20.53
HP LaserJet 4P, 4MP, 4+, 4M+, 4V, 4MV, Color LJ, 6P, 6MP, 5Si, 5Si/MX, 6P, 6MP	4MB Upgrade	74-93-85	13.33	13.95	13.81	13.67
HP LaserJet 4P, 4MP, 4+, 4M+, 4V, 4MV, Colour LJ, 6P, 6MP, 5Si, 5Si/MX, 6P, 6MP	8MB Upgrade	80-44-26	20.98	21.95	21.73	21.51
HP LaserJet 4P, 4MP, 4+, 4M+, 4V, 4MV, Colour LJ, 6P, 6MP, 5Si, 5Si/MX, 6P, 6MP	16MB Upgrade	80-44-33	38.27	42.95	41.66	40.41
HP LaserJet 5L/6L	1MB Module	82-27-45	20.45	22.95	22.26	21.59
HP LaserJet 5L/6L	2MB Module	82-27-52	31.98	35.90	34.82	33.78
Hp LaserJet 5L/6L	4MB Module	82-27-69	26.72	27.95	27.67	27.39
HP LaserJet 4000/N/TN/4050 Series/5000/N/GN/8000/N/GN	8MB Upgrade	68-88-17	25.79	28.95	28.08	27.24
HP LaserJet 4000/N/TN/4050 Series/4500/5000/N/GN/8000/N/GN/8100/N/DN, Mopier 240	16MB Upgrade	45-24-90	29.58	30.95	30.64	30.33
HP LaserJet 4000/N/TN/4500/4050 Series/5000/N/GN/8000/N/GN/8100/N/DNMopier 240	32MB Upgrade	45-25-00	59.21	61.95	61.33	60.72
HP LaserJet 1100/1100A	8MB Module	47-48-49	22.89	23.95	23.71	23.47
HP LaserJet 1100/1100A	16MB Module	47-48-56	31.14	34.95	33.90	32.88
Brother HL-660, 760, 1060, 1260	8MB Module	85-35-63	20.06	20.99	20.78	20.57
Epson EPL 5700/EN/PS, EPL-N1600	8MB Module	47-48-63	14.21	15.95	15.47	15.01
Epson EPL 5700/EN/PS, EPL-N1600	16MB Module	47-48-70	28.47	31.95	30.99	30.06
Epson EPL 5700/EN/PS, EPL-N1600	32MB Module	47-48-87	47.74	49.95	49.45	48.96

Please note: The following is a small sample of upgrades available. If the printer model, or upgrade to require, is not listed please call Action sales.

OTHER ITEMS

FOR BRANDED, ORIGINAL LASER PRINTER ACCESSORIES SEE PAGES 439, 440

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

THIRD PARTY PRINTER MEMORY UPGRADES

DESCRIPTION	UPGRADE SIZE	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Kyocera FS-680/800/1750/3750/6700/7000/9000	8MB module	80-44-26	20.98	21.95	21.73	21.51	✂
Kyocera FS-680/800/1750/3750/6700/7000/9000	16MB module	80-44-33	38.27	42.95	41.66	40.41	✂
Kyocera FS-680/800/1750/3750/6700/7000/9000	32MB module	45-26-58	71.23	79.95	77.55	75.22	
Lexmark Optra S1255, 1855, 2455 & 3455/N	8MB module	45-26-65	19.07	19.95	19.75	19.55	✂
Lexmark Optra S1255, 1855, 2455 & 3455/N	16MB module	45-26-72	29.58	30.95	30.64	30.33	✂
Lexmark Optra S1255, 1855, 2455 & 3455/N	32MB module	45-26-89	57.87	64.95	63.00	61.11	✂
Lexmark Optra S1255, 1855, 2455 & 3455/N	64MB module	45-26-96	100.07	◗	108.95	105.68	✂
QMS Magicolor Series	4MB module	45-27-06	11.13	12.49	12.12	11.75	
QMS Magicolor Series	8MB module	45-27-13	19.56	21.95	21.29	20.65	
QMS Magicolor Series	16MB module	45-27-20	29.36	32.95	31.96	31.00	
QMS Magicolor Series	32MB module	45-27-37	59.65	66.95	64.94	62.99	✂

LASER PRINTER ACCESSORIES

brother

DESCRIPTION	FOR USE WITH	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
8MB RAM module	HL760/1060/1260/1660	85-35-63	20.06	20.99	20.78	20.57	
16MB RAM module	HL760/1060/1260/1660	68-54-01	246.15	◗	254.95	252.40	✂
32MB RAM module	HL760/1060/1260/1660	68-54-25	337.87	◗	349.95	346.45	✂
1.5MB RAM Board	HL-630/730 Plus	77-45-01	87.27	97.95	95.01	92.16	
250 sheet lower paper tray	HL1250/1270	22-27-72	125.46	◗	129.95	128.65	NEW
Duplex unit	HL1660E/2060	22-36-80	382.28	◗	395.95	391.99	NEW
Lower paper tray	HL1660/2060	22-98-34	226.89	◗	235.00	232.65	NEW
250 sheet lower paper tray	HL2400	22-53-54	210.34	◗	229.00	222.13	NEW

LASER PRINTER ACCESSORIES

KYOCERA Ecosys

DESCRIPTION	FOR USE WITH	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
500 sheet paper feeder (PF-5) – requires PA1	FS-series (not 400)	92-09-39	254.84	◗	263.95	261.31
Multi-protocol Ethernet i/f (HB4-SNMP)	FS-series	80-70-21	270.28	◗	279.95	277.15
Duplex unit (DU20)	FS-3700+	84-88-77	415.10	◗	429.95	425.65
1st 500 sheet universal paper feeder	FS-1200/1750/3750	41-17-59	222.01	◗	229.95	227.65
2nd 500 sheet universal paper feeder	FS-1200/1750/3750	41-30-87	205.60	◗	212.95	210.82
Duplex upgrade	FS-1200/1750/3750	41-53-45	365.91	◗	379.00	375.21
500 sheet universal feeder	FS-6700	41-30-86	270.28	◗	279.95	277.15
Duplex unit	FS-6700	41-53-44	366.83	◗	379.95	376.15
2GB Hard drive	FS-9000	41-94-75	434.41	◗	449.95	445.45

OTHER ITEMS

FOR GUIDE TO LASER PRINTING SEE PAGE 404
FOR LASER PRINTERS SEE PAGES 405–451
FOR OFFICE PRODUCTS SEE PAGES 459–540

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW item on this page

LASER PRINTER ACCESSORIES

EPSON®

	DESCRIPTION	FOR USE WITH	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	Duplex unit	EPL-N1600	29-46-27	226.84	➧	234.95	232.60
	Duplex unit	EPL-N4000 Series	41-12-46	366.83	➧	379.95	376.15
	10 Bin Mailbox	EPL-N4000 Series	41-38-95	753.02	➧	779.95	772.15
	Face up output tray	EPL-N4000 Series	41-27-72	50.61	52.95	52.42	51.90
	High capacity paper unit	EPL-8000 Series	41-36-81	674.86	➧	699.00	692.01
	250 sheet paper cassette	EPL-8000 Series	41-98-33	160.22	➧	165.95	164.29

LEXMARK

	250 sheet paper tray	Optra M	41-22-64	66.86	69.95	69.25	68.56
	500 sheet paper tray	Optra M	41-49-48	82.15	85.95	85.09	84.24
	500 sheet paper tray	Optra T	41-12-47	79.29	82.95	82.12	81.30
	250 sheet duplex unit	Optra T	41-08-39	214.29	➧	221.95	219.73
	500 sheet paper tray	Optra W	41-38-96	85.98	89.95	89.05	88.16
	Duplex unit	Optra W	41-27-73	289.59	➧	299.95	296.95

SAMSUNG ELECTRONICS

NEW	Lower Feeder	ML7000/7050	22-78-53	124.55	➧	129.00	127.71
NEW	10/100Base-T Ethernet card	ML7050	22-93-14	221.09	➧	229.00	226.71

OKI

NEW	2nd tray module	12in/10EX range	22-76-57	124.55	➧	129.00	127.71
NEW	2/3rd tray module	20/24 range	22-64-65	221.09	➧	229.00	226.71
NEW	Duplex module	20/24 range	22-76-72	124.55	➧	129.00	127.71
NEW	2nd tray module	8c Plus	22-15-19	201.78	➧	209.00	206.91

QMS

NEW	Duplex unit	2560 range	22-40-11	255.85	➧	265.00	262.35
NEW	Optional 500 sheet input	2560 range	22-60-67	241.32	➧	249.95	247.45
NEW	Lower paper feeder including A4 cassette	Magicolor 2+	22-53-00	241.32	➧	249.95	247.45

XEROX

NEW	550 sheet feeder	N2125	22-62-54	215.25	➧	222.95	220.72
NEW	Duplex unit	N2125	22-31-46	246.15	➧	254.95	252.40
NEW	2000 sheet feeder	N2025/2825	22-34-68	753.02	➧	779.95	772.15
NEW	Duplex unit	N2025/2825	22-91-71	231.66	➧	239.95	237.55

OTHER ITEMS

FOR LASER PRINTERS SEE PAGES 405–451
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

GUIDE TO DOT MATRIX & LINE PRINTERS

Impact dot matrix technology is one of the most dated in the world of computer printing, but continues to be a popular one for cost-effectiveness and simplicity of use. It is the first printing technology that most users were introduced to and therefore the one with which they feel most comfortable.

In a similar fashion to a typewriter, an inked fabric ribbon or film is passed between the paper and the print head.

The head is made up of either 9 or 24 'pins' which punch a small point of colour (usually black) onto the page. The more pins the print head uses, the higher the definition of the character. Therefore, 24-pin dot matrix printers are more suited to those applications – such as the production of business stationery – where output quality is of greater importance. Listed to the left are the major pro's and con's of dot matrix printing.

ADVANTAGES

- **Very economical to purchase and maintain**

Prices in this catalogue start at under £100+VAT

- **Essential for multi-part stationery**

Because this is *impact* technology, up to 6-part forms can be printed and all copies will register the strike of the pins.

- **Inked ribbons create very little mess**

The ribbons are not dry, but they will not drip, leak into the printer or smear or bleed on the page.

- **Simple to operate**

No complicated control panels are necessary and due to the length of service of dot matrix printers, they are widely supported by a multitude of printer emulations.

- **Make quick text and reports printers**

Where quality of output is not an issue, vast reams of data can be output at speed and comparatively cheaply.

- **Advanced paper handling on some models**

Many have more than one paper input direction and some feature top, bottom and rear input sources, allowing for different media to be used (such as listing paper and single, cut-sheets) without having to unload and re-load the printer.

DISADVANTAGES

- **Poor to medium print quality**

The very nature of the technology limits the printed definition of any characters. More than one pass of the print head is needed to build up clearer text, which slows down the page output time and increases the cost of consumables.

- **Unsuitable for complex graphic output**

The recommended applications are those limited to text and only those graphics which do not require much processing and for which print quality is not a great issue. (Such as primary schoolroom work).

- **Impact print head can jam**

It has been known for the pins to get stuck in, or rip the ribbon. The paper can also be torn as a result. This becomes more common the older the printer gets and can necessitate a replacement print head.

- **Colours are limited**

Those models which use a tri-colour ribbon to enable colour output are limited in the range of hues they can reproduce – generally only the primary and subtractive colours are available. Again, recommended for text and very simple graphics applications.

GUIDE TO LINE PRINTERS

Line printers are capable of handling very high workloads at very low running costs and are therefore ideal for a variety of applications. They are highly reliable, rugged & durable and are perfect for a range of applications such as; data processing, invoices, picking lists, spreadsheets, label bar-coding and multi-pack paper stock.
The printers offered in this catalogue print from between 450 lines/min. to 1400 lines/min. and have either a resolution of 240×96dpi or 240×288dpi. **See page 451 for Tally Line Printers.**

Dot Matrix Printers 442–451
Epson, OKI, Panasonic
Dot Matrix Printers – 9-pin 442–445
Epson, OKI, Panasonic
Dot Matrix Printers – 24-pin 446–448
Epson, OKI, Panasonic
Dot Matrix Printers – Colour 447
Epson



See Page 375 for details

OTHER ITEMS
FOR GUIDE TO INKJET PRINTERS SEE PAGE 374
FOR GUIDE TO LASER PRINTERS SEE PAGE 404
FOR GUIDE TO MULTIFUNCTIONAL PRODUCTS SEE PAGE 452

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

DOT MATRIX PRINTERS – 9-PIN

EPSON®



The entry level, 9-pin, **Epson LX-300** is designed for light to medium output, making it ideal for home and office use. The LX-300 optional colour kit will transform this model into an economic, near letter quality presentation tool.
The **FX-880** and **FX-1170** combine print speeds of up to 380cps (high-speed draft) with advanced paper handling capabilities, such as convertible push/pull tractor feed.

For Continuous Listing Paper see pages 1019–1021

For Printer Silencers see page 490

Model	LX-300	FX-880	FX-1170	FX-2180
Columns	80		136	
Interface	Parallel & Serial	Parallel		Parallel
Cables	See pages 569–575			
Emulations	Epson LX (ESC/P)	Epson FX, IBM ProPrinter		FX (ESC/P) 2380/2381 Plus)
Draft Speed	264cps	342cps		455cps
NLQ Speed	53cps	68cps		114cps
Fonts	3 (Roman, Sans Serif & Epson Draft)			1 draft, 8 bitmap, 8 bar code
Buffer	4KB	32KB	24KB	64KB
Paper Feed	Push tractor	Push tractor, front/rear/bottom feed		Push tractor
Paper Handling	Paper parking			Wide carriage
Dimensions (W × D × H)	366 × 275 × 132mm	415 × 350 × 154mm	625 × 380 × 154mm	639 × 402 × 257mm
Weight	4.0kg	7.6kg	9.2kg	13kg
Warranty	12 months off-site			

visit www.action.com/epson

DON'T FORGET YOUR CONSUMABLES

DESCRIPTION	PLATEN WIDTH (COLUMNS)	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
LX-300	80	75-45-14	97.73	99.95	99.35	98.75
FX-880	80	67-57-41	245.87	▶	249.95	248.45
FX-1170	136	71-01-87	192.75	▶	195.95	194.77
FX-2180	136	25-99-47	383.59	▶	389.95	387.61
ACCESSORIES	**FOR USE WITH**					
Action Printer Starter Kit	LX-300	05-27-59	20.45	22.95	22.26	21.59
Optional Colour Kit	LX-300	75-45-21	31.49	32.95	32.62	32.29

OTHER ITEMS

FOR ORIGINAL RIBBONS SEE PAGES 966, 967
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DOT MATRIX PRINTERS – 9-PIN EPSON®

Epson's DFX Series printers are high-performance, 9-pin models, designed for professional & high throughput and heavy duty data processing tasks. Extensive paper handling features – including twin push tractor feeds, automatic loading, 2 paper feed paths and a micro-feed facility. Both **DFX5000+** and **DFX8500** models are equipped with both parallel and serial interfaces, Epson FX (ESC/P) and IBM ProPrinter II emulations and can handle up to 5-part stationery. The **DFX-5000+** is capable of a superdraft speed of 560cps, whereas the faster **DFX-8500** can output at up to 1120cps in superdraft mode.

For Printer Silencers see page 490



Model	DFX-5000+	DFX-8500
Columns	136	
Interfaces	Parallel & Serial	
Cables	See pages 569–575	
Emulations	Epson FX (ESC/P), IBM ProPrinter II	
Draft Speed	504cps (560cps superdraft)	1120cps superdraft
NLQ Speed	101cps	252cps
Fonts	Draft, Roman, Sans Serif	1 draft, 2 bitmap, 8 bar code
Buffer	20KB	128KB
Paper Feed	Twin push tractor (2 paths) with auto loading	Rear/Front Push
Paper Handling	Paper parking	Push Tractor
Dimensions (W × D × H)	700 × 382 × 369mm	700 × 382 × 369mm
Weight	29.7kg	29kg
Warranty	12 months on-site	

"For Continuous Listing Paper see pages 1019–1021"

visit www.action.com/epson

DON'T FORGET YOUR CONSUMABLES

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DFX-5000+	71-50-89	1182.60	▶	▶	1195.00
DFX-8500	25-87-42	1681.37	▶	▶	1699.00

ACCESSORY & CONSUMABLES	FOR USE WITH					
Action Printer Starter Kit	DFX-5000+/8500	05-27-80	29.36	32.95	31.96	31.00
Black Cartridge Ribbon	DFX-5000+/8500	20-74-63	12.24	14.50	14.35	14.15
Refill Cartridge	DFX-5000+/8500	21-08-07	10.94	11.45	11.34	11.22

OTHER ITEMS

FOR ORIGINAL PRINTER SUPPLIES SEE PAGES 966, 967
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

DOT MATRIX PRINTERS – 9-PIN

OKI



OKI's range of **9-pin dot matrix printers** provide a superb mix of technology and value.

The **ML-280** is ideal for first time buyer with basic data and word-processing needs.
The **ML-320** is especially suited to high speed, high volume data and word-processing applications, whilst the wide carriage **ML-321** 136-column version is designed for spreadsheet applications.

The **ML-520** and **521** are fast, flexible printers which utilise Intelligent Printhead Technology to automatically sense and re-adjust to the thickness of the paper.

Model	ML-280	ML-320	ML-321	ML-520	ML-521
Columns	80		136	80	136
Interfaces	Centronics Parallel				
Cables	See pages 569-575				
Emulations	OKI Microline	IBM/Epson FX		Epson FX/IBM ProPrinter/OKI Microline	
Draft Speed (10cpi)	240cps	250cps		325cps	
High Quality Letter Speed (10cpi)	50cps	62cps		81cps	
Fonts	Courier, High Speed Draft, Utility	Courier, Sans Serif, Italics, Downloaded		Utility, Courier, Gothic, Italic, Barcodes, Downloaded	
Buffer	2KB	28KB		64KB	
Paper Feed	Push tractor				
Paper Handling	—	Paper parking			
Dimensions (W × D × H)	360 × 275 × 80mm	398 × 345 × 116mm	552 × 345 × 116mm	431 × 380 × 133mm	585 × 380 × 133mm
Weight	4.5kg	7.8kg	10.1kg	8kg	10.5kg
Warranty	12 months off-site				

For Printer Silencers see page 490

DESCRIPTION	PLATEN WIDTH (COLUMNS)	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
ML-280	80	73-12-83	196.69	➧	199.95	198.75
ML-320	80	71-31-39	329.48	➧	334.95	332.94
ML-321	136	71-31-77	393.42	➧	399.95	397.55
ML-520	80	71-48-22	357.03	➧	362.95	360.77
ML-521	136	71-48-39	422.93	➧	429.95	427.37
ACCESSORIES	**FOR USE WITH**					
Action Printer Starter Kit	ML-320	05-28-07	23.12	25.95	25.17	24.42
OKI Serial Interface	ML320/321/520/521	72-46-47	41.05	42.95	42.52	42.10
OKI Serial Interface	ML-280	73-11-97	52.52	54.95	54.40	53.86

"For Continuous Listing Paper see pages 1019–1021"

OTHER ITEMS

FOR ORIGINAL PRINTER SUPPLIES SEE PAGES 992
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DOT MATRIX PRINTERS – 9-PIN

Panasonic

Panasonic manufacture a wide range of printers to cater for most needs. The **KX-P1150** offers a 'back to basics' 9-pin option with flat-belt push tractor for easy form loading and simplified operator panel. The **KX-P3200** dot matrix printer is designed for forms printing. It features excellent multi-part stationery capability and easy operation. A bottom push tractor allows a straight paper path – best for printing invoices and slips with high copy ability and high yields (non-tearable) for long life ink ribbon. The **KX-P3696** is a wide carriage dual 9-pin head heavy duty printer for high speed applications. Characterised by fast superior throughput, excellent multi-part stationery capability, 4 paper paths, selectable push/pull tractors and long life ribbons. Panasonic provides easy operation for their dot matrix range with Windows **Set-up** disks (IBM PC compatibles) that allow you to easily set your desired print setting on the PC screen.



For Printer Silencers see page 490

Model	KX-P1150	KX-P3200	KX3696
Columns	80		136
Interfaces	Centronics Parallel	Centronics Parallel, RS-232 Serial	Centronics Parallel
Cables	See pages 569–575		
Emulations	Epson FX-850, ProPrinter III		Epson FX-1170, IBM ProPrinter IIIXL, Windows V3.1 disk included
Draft Speed	240cps	330cps	400cps
NLQ Speed	38cps	44cps	80cps
Fonts	Courier, Bold PS, Roman Sans Serif		Courier, Bold PS, Roman, Sans Serif, Prestige, Script
Buffer	4KB	12KB	13KB
Paper Feed	Push tractor, Friction	Push Tractor Feed (with fanfold paper)	Friction, Push/Pull tractors, four direction feed paths
Dimensions (W×D×H)	434×314×134.5mm	427×215×197mm	590×407×172mm
Weight	4.8kg	4.9kg	14.1kg
Warranty	12 months off-site		12 month on-site

"For Continuous Listing Paper see pages 1019–1021"

DESCRIPTION	PLATEN WIDTH (COLUMNS)	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
KX-P1150	80	72-97-45	97.73	99.95	99.35	98.75
KX-P3200	80	67-82-98	183.90	➧	186.95	185.83
KX-P3696	136	76-64-85	282.27	➧	286.95	285.23
ACCESSORY & CONSUMABLES	**FOR USE WITH**					
Action Printer Starter Kit	KX-P1150	05-28-21	23.12	25.95	25.17	24.42
Black Fabric Ribbon	KX-P1150	20-89-81	4.32	4.85	4.70	4.56
Black Fabric Ribbon	KX-P3696	21-72-88	7.08	7.95	7.71	7.48

OTHER ITEMS

FOR ORIGINAL PRINTER SUPPLIES SEE PAGES 995
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW *item on this page*

DOT MATRIX PRINTERS – 24-PIN

EPSON®



The **Epson LQ-300** incorporates a very small footprint, parallel serial interfaces plus the option of a colour upgrade kit and a 50-sheet automatic paper feeder.
The **LQ-580** is the latest versatile narrow carriage printer in Epson's 24-pin Dot Matrix range providing output at a speed of up to 400cps in high speed draft mode or 100cps in Letter Quality mode.

For Printer Silencers see page 490

"For Continuous Listing Paper see pages 1019–1021"

visit www.action.com/epson

Model	LQ-300	LQ-580
Columns	80	
Interface	Centronics Parallel & Serial	Epson Type B interface slots, IEEE 1284 Bi-directional parallel
Cables	See pages 569–575	
Emulations	Epson ESC/P2, IBM X24e	Epson ESC/P2, IBM 2390
Draft Speed (12cpi)	240cps	350cps
LQ Speed (12cpi)	80cps	120cps
Fonts	4 scalable	Bitmap, Scalable, 8 barcode
Buffer	8KB	64KB
Paper Feed	Friction, Push tractor	Friction feed, push and pull tractor
Paper Handling	Optional 50 sheet feeder	Auto load, paper park, micro feed
Dimensions (W × D × H)	366 × 275 × 141mm	415 × 368 × 160mm
Weight	4.3kg	7.5kg
Warranty	12 months off-site	12 months collect, repair, return

	DESCRIPTION	PLATEN WIDTH (COLUMNS)	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	LQ-300	80	76-65-19	113.07	➧	114.95	114.26
NEW	LQ-580	80	38-30-61	214.39	➧	217.95	216.64
	ACCESSORIES	**FOR USE WITH**					
	Action Printer Starter Kit	LQ-300	05-27-97	22.23	24.95	24.20	23.48
	Optional Colour Kit	LQ-300	76-65-26	30.54	31.95	31.63	31.31
	Serial Interface	570/870/1070	94-19-87	27.67	28.95	28.66	28.37

OTHER ITEMS

FOR ORIGINAL PRINTER SUPPLIES SEE PAGES 966, 967
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DOT MATRIX PRINTERS – 24-PIN

EPSON®

The **LQ-870** is the premier narrow carraige dot matrix printer on the market. Fully configured with standard and optional feeders, the LQ-870 can hold up to five different paper types loaded and ready to print at any time. The **LQ-2180** is capable of printing in superdraft mode at speeds of up to 480cps. It handles up to 6 part forms with the choice of top, bottom and rear paper paths. The LQ-2180 allows the user to choose from three tractor positions (front push, rear push and pull) and three paper entry slots for continuous paper printing. An Epson Type B interface slot allows easy integration with a wide range of different connectivity options including a full range of network configurations. The **DLQ-3000+** is a flat-bed, wide carriage printer that has a built-in tractor that can handle multi-part stationery with the original plus six copies. For ease of use, cut sheets can be loaded from the front and are delivered back to the same place.



For Printer Silencers see page 490

Model	LQ-870	LQ-2180	DLQ-3000+
Columns	80	136	
Interfaces	Centronics Parallel		Parallel & Serial
Cables	See pages 569–575		
Emulations	ESC/P 2	Epson ESC/P2, IBM 2391+	ESC/P2, IBM X/L24E
Draft Speed	330cps	431cps (480cps Super Draft)	444cps (max)
Letter Quality Speed	110cps	143cps	120cps
Fonts	4 Scalable 10 bitmap, 8 barcode, 9 letter quality & 1 draft		12 Bitmap fonts plus 4 scalable in 16 styles
Buffer	8KB	64KB	128KB
Paper Feed	Push/Pull tractor	Push/Pull tractor, top/rear/front/bottom feed	Push tractor
Paper Handling	Paper parking		
Dimensions (W×D×H)	449×365×171mm	639×402×268mm	678×509×285mm
Weight	8.8kg	13kg	16kg
Warranty	12 months off-site		

"For Continuous Listing Paper see pages 1019–1021"

DESCRIPTION	PLATEN WIDTH (COLUMNS)	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
LQ-870	80	94-01-91	369.82	◗	375.95	373.69
LQ-2180	136	77-82-44	450.48	◗	457.95	455.20
DLQ-3000+ Colour	136	67-40-96	757.39	◗	769.95	765.33
ACCESSORIES & CONSUMABLES	**FOR USE WITH**					
Action Printer Starter Kit	LQ-870	05-27-97	22.23	24.95	24.20	23.48
Serial Interface	870	94-19-87	27.67	28.95	28.66	28.37
Black Fabric Ribbon	LQ-870	20-30-65	2.47	2.95	2.75	2.65
Black Fabric Ribbon	LQ-2180	81-46-12	11.54	12.95	12.56	12.18
Black Fabric Ribbon	DLQ-3000	21-70-20	12.38	12.95	12.82	12.69

OTHER ITEMS

FOR ORIGINAL PRINTER SUPPLIES SEE PAGES 966, 967
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save ££'s!
Check live stock
Track order status

Lower prices on-line at action.com

DOT MATRIX PRINTERS – 24-PIN

OKI

71-01-56



The **OKI ML-590** and the 136 column **ML-591** combine the rugged design of the ML-300 series with OKI's intelligent printhead technology to provide superior office printers. The printhead incorporates sensors to detect the thickness of the paper, allowing precisely enough force to be produced by the print needle to give the optimum print quality. Both the ML-590 and ML-591 are capable of high quality, vivid colour printing, simply by installing an optional colour kit.
Top of the OKI range is the **ML-395**, in colour or mono versions. The high speed and versatility of this model make it ideal for the most demanding user.

Intelligent Print Head Technology

For Printer Silencers see page 490

Model	ML-380	ML-590	ML-591	ML-395 M/C
Columns	80		136	
Interfaces	Parallel			Serial/Parallel
Cables	See pages 569-575			
Emulations	Epson LQ, IBM Graphics/ProPrinter			
Draft Speed (10cpi)	160cps	360cps		406cps
Letter Quality Speed (10cpi)	53cps	100cps		135cps
Fonts	Courier, Swiss, Orator, Utility	Utility, Courier, Roman, Swiss, Swiss Bold, Prestige, Barcodes		Utility, Courier, Gothic Roman, Swiss, Swiss Bold, Prestige, Barcodes
Buffer	8KB	64KB		23KB
Paper Feed	Push tractor			
Paper Handling	Paper parking			
Dimensions (W × D × H)	398 × 345 × 119mm	431 × 380 × 133mm	585 × 380 × 133mm	570 × 417 × 180mm
Weight	7.7kg	6.5kg	8.9kg	17kg
Warranty	12 months off-site			

For Continuous Listing Paper see pages 1019–1021

DESCRIPTION	PLATEN WIDTH (COLUMNS)	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
ML-380	80	85-19-67	229.15		232.95	231.55
ML-590	80	71-01-56	452.45		459.95	457.19
ML-591	136	71-02-04	550.81		559.95	556.59
ML-395 Mono	136	71-79-53	678.69		689.95	685.81
ML-395 Colour	136	71-79-60	737.71		749.95	745.45
ACCESSORY	**FOR USE WITH**					
Action Printer Starter Kit	ML-395 Mono	05-28-14	32.03	35.95	34.87	33.83

OTHER ITEMS

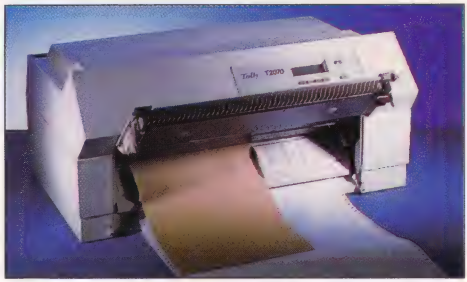
FOR ORIGINAL PRINTER SUPPLIES SEE PAGES 992
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DOT MATRIX PRINTERS – 24-PIN

Panasonic *Tally*





Panasonic offer a comprehensive range of 24-pin printers, all capable of letter quality output.
The **KX-P2023** offers a range of features to provide high quality, economical, narrow carriage printing.
The **KX-P3626** offers a wide carriage, versatile solution to more generalised office applications.
Capable of handling up to 5-part stationery, and endowed with 40KB of memory.

Tally provides new printers with incredible performance: the **T2155** and the **T2170**. With fastest speeds of 875 and 1050cps respectively, these printers provide workloads of 45,000 pages per month with guaranteed reliability. Both printers include a broad range standard emulations, fonts and some 13 barcodes. The T2155 and the T2170 are capable of handling a wide range of media and offer flexible paper handling.

Model	KX-P2023	KX-P3626	T2155	T2170
Columns	80	136		
Interfaces	Parallel (Bi-directional)		Bi-directional Parallel Centronics Serial RS232	
Cables	See pages 569–575			
Emulations	Epson LQ-860, IBM ProPrinter X24E	Epson ESC/P2, IBM ProPrinter XL24E, Windows V3.1 driver disk included	MTPL+ Barcode/LCP, Epson LQ-2550, LQ-2170, IBM ProPrinter XL24E	
Draft Speed	192cps	300cps	550cps	700cps
Letter Quality Speed	64cps	100cps		120cps
Buffer	14KB	40KB	128KB	
Dimensions (W×D×H)	434×314×134mm	590×407×172mm	623×398×275mm	
Weight	4.8kg	14kg	19kg	
Warranty	12 months off-site	12 months on-site		

"For Continuous Listing Paper see pages 1019–1021"

For Printer Silencers see page 490

DON'T FORGET YOUR CONSUMABLES

DESCRIPTION	PLATEN WIDTH (COLUMNS)	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Panasonic KX-P2023	80	73-14-58	120.94	♦	122.95	122.21
Panasonic KX-P3626	136	76-64-92	281.28	♦	285.95	284.23
Tally T2155	136	47-17-60	963.96	♦	979.95	974.07
Tally T2170	136	47-30-87	1245.93	♦	♦	1259.00
ACCESSORY	**FOR USE WITH**					
Action Printer Starter Kit	KX-P3626	05-27-66	30.25	33.95	32.93	31.94

OTHER ITEMS

FOR PARALLEL PRINTER CABLES SEE PAGES 569–575

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DOT MATRIX PRINTERS — EPSON®



The **EPSON TM-U200** series is compact and reliable. It boasts a multitude of user-friendly features including an Auto Status Back (ASB), Journal take-up, and receipt cutter. The TM-U200 series is in wide use as the POS standard printer for the general retail, restaurant kitchen and hospitality markets. Beautiful and compact the **EPSON TM-T88II** delivers print at speeds up to 120mm/sec. It employs a drop-in roll-paper loading system that makes paper replacement fast and easy.

The top of the line models in the TM series, the multifunction **TM-U950** handles a variety of printing formats including receipts, journals and slips. Such versatility makes them perfect choice for large POS systems used by mass merchandisers and other large stores offering an unparalleled selection of business applications.

The **TM-H6000** is an ultra-fast thermal receipt printing including features such as 12-seconds cheque printing and validation, jam-free cheque handling, advanced graphics and barcode printing, interchangeable interfaces and Euro ready, OpoS compliant.

Model	TM-U200 Series	TM-T88II	TM-U950	TM-H6000
Print Speed	3.5LPS (40 columns, 16CPI); 6.4LPS (16 columns, 16CPI)	38LPS	311CPS	44LPS
Interfaces	RS-232C, Bi-directional parallel, RS-485 optional		RS-232C, Bi-directional parallel	RS-232C, Bi-directional parallel, RS-485, USB
Cables	See pages 569-575			
Memory	4Kb		2Kb	4Kb
Print Font	7×9/9×9	9×17/12×24	7×9/9×9	5×7
Print Method	9-pin, serial impact dot matrix	Thermal line	9-pin, serial impact dot matrix	8-pin shuttle impact dot matrix
Copy Capability	1 original and 2 copies	N/A	1 original and 4 copies	1 original single-ply
Paper Thickness	0.06 to 0.085mm	N/A	0.09mm	0.06 to 0.09mm
Dimensions (W×D×H)	A: 160×295×160mm B: 160×248×160mm D: 160×248×133mm	145×195×148mm	251×298×194.6mm	186×298×185mm
Weight	A: 2.5kg B: 2.3kg C: 2.2kg	1.8kg	5.6kg	5.8kg

visit www.action.com/epson

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
TM-U210A	52-96-41	201.78	▶	209.00	206.91
NEW TM-U210B	93-17-33	172.82	▶	179.00	177.21
NEW TM-U210D	69-23-10	143.86	▶	149.00	147.51
TM-T88II	45-59-16	269.37	▶	279.00	276.21
NEW TM-U950	48-12-65	436.77	▶	449.00	444.51
NEW TM-H6000	97-53-70	465.96	▶	479.00	474.21

OTHER ITEMS
FOR PARALLEL PRINTER CABLES SEE PAGES 569–575
FOR ORIGINAL RIBBONS SEE PAGES 966, 967

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LINE PRINTERS

Tally

The **T6090** line printer: 900 lines per minute with unsurpassed print quality and features, ensuring excellent print quality for barcodes and text alike without sacrificing speed.

For high speed performance, heavy workload and versatility, the **T6140** and **T6141** are the best in their class. These products thrive on hard work in harsh environments to produce long runs of data processing reports, invoices or shipping documents. No other technology offers a lower cost of ownership or cost per page. The **T6180** represents a new standard for high speed line printers. It is the first and only line matrix printer to achieve a print speed of 1800 lines per minute – through a combination of innovations specifically geared for maximum output. A fast RISC controller featuring 'Page Segmentation Architecture' intelligently arranges data into segments prior to printing. This eliminates forms reversals, hence text, graphics and barcodes are printed in a single pass without the need to reverse feed the paper. The T6180 handles 6-part forms and prints a line up to 136 columns at 10cpi.

visit www.action.com/tally

69-35-34



Model	T6090	T6140	T6141 (Quietised)	T6180
Printing technology	Line impact, dot matrix, low mass, high inertia patented shuttle mechanism			
Output (draft)	900 lines/min	1420 lines/min		1800 lines/min
Throughput	1340 pages/hour	1621 pages/hour		2228 pages/hour
Max. resolution	240 × 96dpi	240 × 288dpi		
Interfaces	Serial & Parallel			
Fonts	Draft, draft processing, gothic, courier, OCR-A, OCR-B			
Paper Handling	4 tractors			
Emulations	Tally 660/690, Epson FX, IBM Proprinter XL, Printronix P600, P6000, DEC LG01, Genicom ANSI MTPL, HP 2564 QMS code V, Printronix Graphics Language (PGL)			
Dimensions (W × D × H)	981 × 800 × 849mm	1118 × 779 × 483mm	1066 × 813 × 712mm	
Weight	90kg	74.5kg	120kg	121kg
DBA	52DBA	55DBA	52DBA	52DBA
Warranty	12 months on-site			

‡Suitability of OCR-A, OCR-B and barcode printout ultimately depend on the quality of the reader being used. Therefore we recommend that you try samples of OCR and barcode printout prior to purchase.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
T6090	89-74-02	4491.40	➧	➧	4495.00	
T6100	64-78-50	4245.60	➧	➧	4249.00	NEW
T6140	69-35-10	5995.00	➧	➧	5995.00	
T6141	69-35-27	6995.00	➧	➧	6995.00	✂
T6180	69-35-34	7595.00	➧	➧	7595.00	✂

OTHER ITEMS

FOR GUIDE TO DOT MATRIX PRINTERS SEE PAGE 441
FOR GUIDE TO INKJET PRINTERS SEE PAGE 374
FOR GUIDE TO LASER PRINTERS SEE PAGE 404

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

GUIDE TO ALL-IN-ONE MULTIFUNCTIONAL PRODUCTS

All-in-one multifunctional products combine a printer, scanner, copier and fax. Plugged directly into your PC they are ideal for both small businesses, where you need to make the most of your budget, or in large offices where time is at a premium as they save the hassle of walking around the office.



The following symbol depicts an all in one multifunctional product:

MULTIFUNCTIONAL CAPABLE PRODUCTS

Unlike all-in-one multifunctional products, a separate PC link needs to be bought to be able to connect the product to the PC. With the addition of the optional software, it can be used as a printer and scanner and you can receive or send faxes directly to and from your PC.



The following symbol depicts a multifunctional capable product:

BENEFITS OF ALL-IN-ONE MULTIFUNCTIONAL PRODUCTS:

- The multifunctionality adds value to the customers' single product purchase and saves on desktop and office space. In addition only one ink cartridge needs to be purchased for the fax and printer which saves time and money.
- The multifunctional devices' fax capability means you can send and receive faxes directly from your Windows applications.
- All models are equipped with dual access. When the device is busy receiving or sending a fax, you can enter a document into an automatic memory queue, to be ready for transmission when the line is free.
- And now multifunction colour printing is possible.
- For Multifunctional capable products the software and cables have to be purchased separately. On models where the additional software and cables are available they are detailed on the page with the products. Once the additional software has been purchased these products offer the same advantages as the all in one multifunctional products.
- Some products do not have the scanning facility and will therefore not have the 'scanning' icon in the logo.

Look out for the following sign:



NEW!! Laser Printers/Digital Copiers

For the first time in this section of the catalogue we introduce this type of product which is set to revolutionise the world of office printing. Great savings can be made in terms of consumables, warranty contracts and initial cost of ownership by considering this fresh approach to printing. Vendors featured this time are Xerox and Sharp and they are featured on page 453.





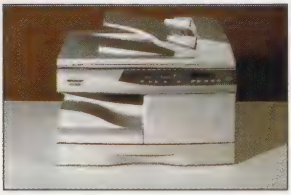


FOR GUIDE TO LASER PRINTERS SEE PAGE 404
FOR GUIDE TO INKJET PRINTERS SEE PAGE 374
FOR GUIDE TO DOT MATRIX PRINTERS SEE PAGE 441

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DIGITAL COPIER/PRINTERS

SHARP RICOH



SHARP AL1000/AL1220
- Desktop, fixed platen personal digital copier.
- Laser engine, 600dpi copy resolution.
- 10cpm. (12cpm AL1220 model only).
- 1 × 250 sheet paper tray, single sheet integral bypass. (50 sheet integral bypass AL1220 model only).
- 30 sheet document feeder. (AL1220 model only).
- Full 50% to 200% zoom ratio.



SHARP AL1520/ AL1530
- Desktop duplex copyings.
- 15 copies per minute.
- 600 dpi.
- 30 sheet single path feeder.
- 9.6 first copy time.
- 50-200% zoom.
- GDI printer option.



Ricoh Bizworks 406/406DF
Bizworks 406
- 6cpm.
- **FCOT** – 17 secs.
- Flat bed copier/scanner.
- **SOPM**.

Additional 406DF features:
- Additional document feeder.
- Electronic document sorting.
- Fixed Reduce/Enlarge (5R/4E).
- Zoom 50-200% in 1% increments.

SHARP DM-2000
- 20 pages per minute.
- High quality 1200dpi equivalent, 20ppm laser printer.
- Standard 2 × 250-sheet front loading paper trays and 100 sheet multi-bypass feeder (expandable to 1,100 sheet capacity with option).
- Maximum A3 print/copy size.
- Space saving interior document tray with offset stack function.
- Optional super G3 fax module.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Sharp AL1000 Digital Copier/Printer	86-86-73	609.83	▶	619.95	616.23
Sharp AL1220 Digital Copier/Printer	66-75-93	767.22	▶	779.95	775.27
Sharp AL1520 Digital Copier	38-29-50	785.96	▶	799.00	794.21
Sharp AL1530 Digital Copier	36-99-67	865.59	▶	879.95	874.67
Ricoh Bizworks 406	49-25-22	517.37	▶	525.95	522.79
Ricoh Bizworks 406DF	49-25-46	589.23	▶	599.00	595.41
Sharp DM2000	43-00-27	CHECK ONLINE	FREE Call	FREE Call	FREE Call
Sharp DM2000N – Ethernet Ready	12-11-05	1879.29	▶	▶	1899.00
CONSUMABLES					
AL 1000 Printer kit	57-38-98	79.29	82.95	82.12	81.30
AL1000/1220/1520/1530 Toner Cartridge	81-41-65	71.64	74.95	74.20	73.46
AL1000/1200/1220/1520/1530 Printer kit Drum	45-97-96	78.33	81.95	81.13	80.32
Fax upgrade for DM2000	37-00-05	982.70	▶	999.00	993.01

OTHER ITEMS
FOR STATIONERY SEE PAGES 1017–1034
FOR PRINTER STANDS SEE PAGE 489

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ALL-IN-ONE MULTIFUNCTIONAL PRODUCTS

HEWLETT PACKARD
TAKE COVER
Buy HP SupportPack
See page 432



47-17-61

The **HP OfficeJet 710** helps you to work more efficiently, by providing all the office functions you need at your fingertips without compromising quality or performance. It offers you the value and simplicity of a fully integrated colour printer, scanner and copier, plus plain-paper colour b/w faxing capability – all in one product. The HP OfficeJet 710 works with Windows 95, 98 or NT 4.0.



53-01-27

The **HP OfficeJet G Series** are HP's premium performance colour flatbed all-in-one for document handling, creation and management. They feature the latest HP print technology for delivering photo-realistic image quality, exceptionally high-quality 36-bit scanning, faster copying speeds and networking capability. Each model combines colour printer, scanner and copier.

Model	OfficeJet 710	OfficeJet G55	OfficeJet G85
Resolution	Up to 600×600dpi	2400×1200dpi	
Memory	50 pages	N/A	125 pages
Interface	Bi-directional Parallel	Bi-directional Parallel, IEEE-1284C compliant, USB	
Cables	See pages 569–575		
Compatibility	ITU Group 3		
Print Speed	Up to 5ppm mono and 2ppm colour	Up to 12ppm mono, up to 10ppm colour	
Copy Speed	Up to 2ppm	Up to 12ppm mono, up to 9ppm colour	
Scanning Resolution	Up to 1200dpi	600×3600dpi	
Fax Speed	14.4kbps		
Document Feed Capacity	20 pages	150 pages	
Dimensions (W×D×H)	431.8×359.9×257.8mm	470×439×292mm	470×484×506mm
Weight	6.8kg	11.98kg	14.72kg
Warranty	12 months return and repair (upgradable to 3 years on-site with HP SupportPack)	12 months on-site (upgradable to 3 years on-site with HP SupportPack)	

HEWLETT PACKARD HELPLINE 08701 66 99 77

DON'T FORGET YOUR CONSUMABLES

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
✂	OfficeJet 710	47-17-61	195.67	➧	196.95	196.46
✂	OfficeJet 710 & SupportPack	06-94-82	262.59	➧	266.95	265.35
NEW	OfficeJet G55	53-01-27	309.81	➧	314.95	313.06
NEW	OfficeJet G55 & SupportPack	06-76-75	378.67	➧	384.95	382.64
NEW	OfficeJet G85	22-52-62	388.51	➧	394.95	392.58
NEW	OfficeJet G85 & SupportPack	06-78-06	511.47	➧	519.95	516.83

ACCESSORY CONSUMABLES	FOR USE WITH					
Action Printer Starter Kit	G55/G85	04-26-04	21.34	23.95	23.23	22.53
Black Ink Cartridge	OfficeJet 710	21-80-29	17.77	17.95	17.90	17.85
Colour Ink Cartridge	OfficeJet 710	21-80-36	17.92	18.75	18.56	18.38
Photo Ink Cartridge	OfficeJet 710	22-53-66	19.29	19.95	19.75	19.55

OTHER ITEMS
FOR GUIDE TO MULTIFUNCTIONAL PRODUCTS SEE PAGE 452
FOR OFFICE PRODUCTS SEE PAGES 459–540
FOR STATIONERY SEE PAGES 1017–1034

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ALL-IN-MULTIFUNCTIONAL PRODUCTS

Regardless of your work document you still need full office functionality. With **HP OfficeJet T Series** it's right there at your fingertips. There's no compromise on quality, performance or efficiency over the equivalent separate products. The HP OfficeJet T Series is a hassle-free way of getting your work done faster and more efficiently – saving you time in many different ways and – best of all – keeps your desk space clear for other purposes. It offers low cost of ownership with low cost-per-page, PC faxing to save paper and printing costs and simplicity with only one set of supplies to order and replace. The OfficeJet T Series offers you the value and integration of a colour printer, colour fax, colour copier and colour scanners all designed to work together.

FEATURES:

- **Printer:** HP PhotoREt II photo quality; up to 11ppm black and 8.5ppm colour (T65) and up to 9ppm black and 6.5ppm colour (T45), black and white at 600dpi.
- **Fax:** Standalone b/w and colour fax; works with answering machines. 10 one-touch speed dials (only for the T65).
- **Scanner:** 300 × 300dpi optical resolution; OCR included; scan button on front panel.
- **Copier:** up to 6cpm black and 2cpm colour; standalone colour copying.
- Support Win 9x, NT 4.0, (Win 2000 when available).



HEWLETT PACKARD Business Reseller Select

HEWLETT PACKARD TAKE COVER Buy HP SupportPack

See page 432

Model	OfficeJet T45	OfficeJet T65
Resolution	600 × 600dpi	
Memory	75 pages	
Interface	Bi-directional parallel, IEEE 1284 compliant	
Cables	See pages 569–575	
Compatibility	ITU Group 3	
Print Speed	Up to 9ppm black and 6.5ppm colour	Up to 11ppm black and 6.5ppm colour
Copy Speed	Up to 6ppm mono and 2ppm colour	
Scanning Resolution	300 × 300 optical resolution	
Fax Speed	14.4kbps	
Document Feed Capacity	100 sheet	
Dimensions (W × D × H)	445 × 358 × 225mm	
Weight	10.9kg	
Warranty	12 months on-site (upgradable to 3 years with HP SupportPack)	

HEWLETT PACKARD HELPLINE 08701 66 99 77

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
OfficeJet T45	47-49-50	231.12	▶	234.95	233.54
OfficeJet T45 & SupportPack	06-94-89	286.20	▶	290.95	289.20
OfficeJet T65	47-30-94	301.94	▶	306.95	305.11
OfficeJet T65 & SupportPack	06-17-37	369.82	▶	375.95	373.69
ACCESSORY	**FOR USE WITH**				
Action Printer Starter Kit	T45/T65	04-26-04	21.34	23.95	23.23	22.53

OTHER ITEMS

FOR GUIDE TO MULTIFUNCTIONAL PRODUCTS SEE PAGE 452
FOR OFFICE PRODUCTS SEE PAGES 459–540
FOR STATIONERY SEE PAGES 1017–1034

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

ALL-IN-ONE MULTIFUNCTIONAL PRODUCTS



The **HP LaserJet 3150** is a single reliable product designed to provide 4 of the most used office services on your desk in just 1.4 square feet of space. Separate paper paths allow you to print while sending broadcast faxes; scan while sending a print job; or copy while sending or receiving a PC fax. Networking capabilities, clean simple installation and easy-to-use intuitive software allows you to quickly take advantage of the LaserJet 3150.

FEATURES:

- Laser-quality copies up to 6 pages per minute with automatic collation.
- 1 to 99 copies at the touch of a button.
- Send a fax or make copies without a PC connection.
- Multi-tasking and simultaneous operations.
- Can be easily networked with an optional HP JetDirect External Print Server for full office utilisation.
- True 600 × 600dpi resolution and 6ppm.

ALL-IN-ONE MULTIFUNCTIONAL PRODUCT: PRINTER SCANNER COPIER FAX

HEWLETT PACKARD Business Reseller

HEWLETT PACKARD TAKE COVER Buy HP SupportPack See page 432

visit www.action.com/hp

Model	LaserJet 3150
Printer Technology	Laser
PC Compatible	Yes
Print Speed	6ppm
Copy Speed	6ppm
Scanning Resolution	600dpi enhanced (300dpi optical) with levels of gray
Fax Speed	14.4kbps – 6 seconds per page
Fax Memory	Up to 150 pages fax storage
Number Memory	175 speed dials, 10 one-touch
Document Feed Capacity	Up to 30 sheets
Warranty	12 months with Express Exchange

HEWLETT PACKARD HELPLINE 08701 66 99 77

DON'T FORGET YOUR CONSUMABLES

DESCRIPTION		CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
LaserJet 3150		53-00-68	381.51	◗	384.00	383.04
LaserJet 3150 & SupportPack		04-49-64	472.12	◗	479.95	477.04
CONSUMABLE	**FOR USE WITH**					
Black Toner Cartridge	LaserJet 3150	22-11-19	32.87	33.25	33.15	32.95

OTHER ITEMS

FOR GUIDE TO MULTIFUNCTIONAL PRODUCTS SEE PAGE 452
FOR OFFICE PRODUCTS SEE PAGES 459–540
FOR STATIONERY SEE PAGES 1017–1034

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ALL-IN-ONE MULTIFUNCTIONAL PRODUCTS EPSON® Canon



EPSON COVERPLUS

Page 32



The **EPSON Stylus Scan 2000** integrates printing, copying, faxing, document e-mailing and scanning in a simple-to-use device, saving desk space without compromising on quality. The **EPSON Stylus Scan 2500** incorporates photo-real printing, multi-function standalone copying, high quality scanning, faxing and document e-mailing and it comes with USB and parallel interfaces.

The **Canon MultiPASS C70** and the **C80** are highly featured, full colour, all-in-one PC connectable multifunctional. These small and compact units offer Small Office and Home users the ability to colour fax, colour print, colour copy, colour scan and also to PC fax. They are the perfect all-in-one colour desktop solutions.

Model	Stylus Scan 2000	Stylus Scan 2500	MultiPASS C70	MultiPASS C80
Resolution	1440dpi		720×360dpi (with smoothing)	
Memory	64KB		42 pages	426 pages
Interface	USB and Parallel (IEEE-1284)		—	—
Emulations	EPSON ESC/P, EPSON Remote		—	—
Cables	See pages 569–575			
Fonts	5 Bitmap, 4 Scalable		8 Bitmap, 256 greyscales	
Print Speed	Up to 6ppm		5ppm	
Scanning Resolution	300×600dpi	600×2400dpi	600×600dpi (enhanced)	
Paper Handling	100 A4 Sheets Cut Sheet Feeder		100 A4 Automatic Sheet Feeder	
Dimensions (W×D×H)	430×383×310mm	517×413×212mm	453×573×277mm	
Weight	5.2kg	12kg	5.1kg	
Warranty	12 months EPSON replacement or repair		12 months on-site	

visit www.action.com/epson

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
EPSON Stylus Scan 2000	47-31-05	209.48	◗	212.95	211.67	✂
EPSON Stylus Scan 2000 & Epson Cover Plus	06-17-91	CHECK ONLINE	FREE Call	FREE Call	FREE Call	
EPSON Stylus Scan 2500	47-53-64	261.61	◗	265.95	264.35	
EPSON Stylus Scan 2500 & Epson Cover Plus	06-31-08	351.13	◗	356.95	354.81	✂
Canon MultiPASS C70	12-11-76	196.69	◗	199.95	198.75	NEW
Canon MultiPASS C80	37-00-63	265.55	◗	269.95	268.33	NEW
Canon MultiPASS L60	47-58-31	590.16	◗	599.95	596.35	
Canon MultiPASS L90	68-00-66	727.88	◗	739.95	735.51	✂

OTHER ITEMS

FOR GUIDE TO MULTIFUNCTIONAL PRODUCTS SEE PAGE 452
FOR GUIDE TO LASER PRINTERS SEE PAGE 404

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ALL-IN-ONE MULTIFUNCTIONAL PRODUCTS

brother



The **MFC-740** is the latest 6 in 1 colour multi-function product from **Brother,** offering 6 stunning features in one compact unit, plus a unique feature – **Direct Video Printing** allowing the printing of images from digital cameras, video cameras, video recorders, or, in fact, any device with a video output socket such as most TVs.



The **MFC-9050** is a true all-in-one quality laser printer/fax/copier. It features approximately 6 second transmission speed, 124 speed dials, up to 6ppm print speed, a 20 sheet auto document feeder and up to 600dpi print resolution.



The **MFC-9650,** 5-in-1 multifunctional fax machine from **Brother,** is a fax printer, copier, scanner and PC fax all-in-one. It features up to 12ppm print speed and up to 600dpi resolution and 250 sheet paper capacity plus an optional 250 sheet paper cassette.

Model	MFC-740	MFC-9050	MFC-9650
Group compatibility	ITU-T Group 3		
PC compatible	Included	Yes	
Resolution	Up to 1440 × 720dpi	Up to 600dpi	
FAX/Phone/Answerphone switch	Yes		
Number Memory	24 one touch (100 speed dials)		32 one touch (100 speed dials)
Document Feed Capacity	20 pages		30 pages
Memory	Up to 300 pages (4MB)	Up to 130 pages (2MB)	
Handset	Yes	No	
Dimensions (W × D × H)	540 × 247 × 390mm	385 × 334 × 250mm	377 × 442 × 323mm
Weight	9kg	8.2kg	12kg

visit www.action.com/brother

DON'T FORGET YOUR CONSUMABLES

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
✂	MFC-740	49-62-05	344.24	➧	349.95	347.85
✂	MFC-9050	46-67-30	324.57	➧	329.95	327.97
✂	MFC-9650	53-78-08	442.61	➧	449.95	447.25
NEW	MFC-9750	53-01-41	540.98	➧	549.95	546.65
NEW	MFC-9870	22-52-71	708.20	➧	719.95	715.63
✂	HL-P2500	39-61-23	238.00	➧	241.95	240.50
	CONSUMABLES & ACCESSORY					
	Black Ink Cartridge for Brother MFC-740	52-95-90	11.90	12.45	12.33	12.20
	Cyan Ink Cartridge for Brother MFC-740	22-50-28	4.77	4.99	4.94	4.89
	Magenta Ink Cartridge for Brother MFC-740	12-09-00	4.77	4.99	4.94	4.89
	Yellow Ink Cartridge for Brother MFC-740	38-28-18	4.77	4.99	4.94	4.89
	Drum Unit for MFC9050	22-67-81	72.36	72.95	72.85	72.75
	Black Toner Cartridge for MFC9050	22-67-74	12.09	12.65	12.52	12.40

OTHER ITEMS FOR OFFICE PRODUCTS SEE PAGES 459–540

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

OFFICE PRODUCTS

INDEX BY PRODUCT TYPE

Acoustic Hoods 490
Answering Machines 477
Audio-conferencing 479
Business Telephone 477
Cable Lock Devices 511
CD Binder Sleeves 533
CD Portable Storage & Cases 527
CD Storage 527-529
Cleaning Products for Office 533, 535-536, 538-540
Copyholders 505
Corded Telephones 478
Data Access Control 514
Data Cartridge Storage 530
Desk Clearance Accessories 502-504
Desks 487, 491-492
Dictation Equipment 480
Digital Cordless Phones 474-475
Diskette Mailers 533
Diskette Organiser 533
Door Intercom 476
Dust Covers 537
Executive Chairs 494
Facsimile Machines – Plain Paper 462, 468-473
Facsimile Machines – Thermal 470
Fire Safes 516-517
Foot Rests 505
Guide to – Cleaning 534
Guide to – Facsimile Products 464
Guide to – Fire Safes 515
Guide to – Multifunctional Capable Products 460
Guide to – Screen Filters 518
Guide to – Security Products 510
Guide to – Storage Products 526
ITU-T Test Chart No. 1 464
Label Makers 484-485
Label Printers 483, 486
Laminators 482
LAN System Furniture 498-501
Media Storage 527-528
Monitor Arms 509
Mouse Mats 507
Mouse Pads 507
Multifunctional Capable Products 461-463
Multimedia Storage 532
Network Racking System 496-497
Office Chairs 493-494
Pedestal Units 491-492
Phones 474-475, 477-478
Photocopiers 481
Printer Silencers 490
Printer Stands 489-491
Screen Filters 519-521, 523-525
Security Devices – for Desktop PCs 513
Security Devices – for Laptop PCs 512
Shelf Units – Chrome Plated 495
Shredders 482
System Furniture 491-492
Telephone Answering Machines 477
Telephones 474-475, 477-478
Telephone System 476
Terminal Arms 508-509
Workstations – Height Adjustable 488
Workstations – Mobile 488
Wrist Rests 506

NEW ITEMS WITHIN THIS SECTION



Brother MFC-760
Multifunctional capable fax

Acco/Rexel Auto Shredder Range.. 482
Acco/Rexel LV250 A4 Laminator.. 482
Brother Fax 1030 Plus Plain Paper Fax..... 462
Brother MFC-9650/MFC-760 Multifunctional Capable Faxes.. 462
BT Diverse 3000 Series Digital Cordless..... 474
BT Synergy 2150 Digital Cordless Phone..... 475
BT Ultimate 106 Telephone System..... 476
Canon Laser Fax 1350..... 473
Canon B-155 Fax Machine..... 472
Casio KL-C500-EJ Label Printer... 483
Curtis CD Traveller..... 528
Fellowes Invision CD Tower..... 528
Fellowes Easy Glide Mouse Pads.. 506
Fellowes Softworks Multimedia File..... 532
Genisys SuperGel Ergo Wrist Rests..... 506
Kensington SonicLock Laptop Electronic Alarm..... 512
Monarch Notebook Station.....
Monarch Wave Desking..... 487
OKI Fax 250 Thermal Transfer Fax Machine..... 468
Olympus V-90 and DS-150 Digital Voice Recorder..... 480
Samsung SF 5100 Fax Machines.. 470



BT Diverse 3016 Cordless digital phone



Casio KLC-500-EJ Label Printer

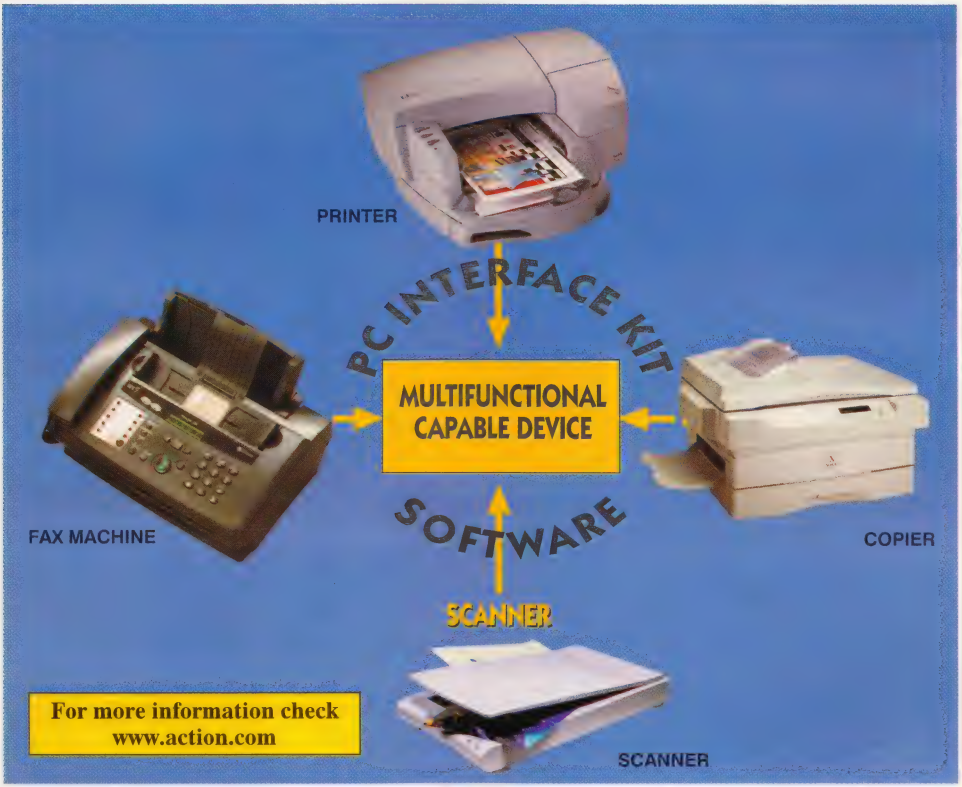


Monarch Notebook Home-Station

Lower prices on-line at action.com

GUIDE TO MULTIFUNCTIONAL CAPABLE PRODUCTS

Major facsimile manufacturers, such as the ones featured in this catalogue are battling for the wallets of home and small office PC users with the release of new multifunctional peripherals.



As discussed in the guide to facsimile, there are two types of facsimile machines: **'all-in-one multifunctional products'** and **'multifunctional capable products'.** 'All-in-one multifunctional products' are fax machines, printers, copiers and scanners all in one complete unit. These machines are featured on **pages 453–458.**
The following section of the catalogue is, however, solely concerned with 'multifunctional capable products'. In order for these devices to perform three of the four functions – faxing (via the PC), printing and copying – a PC Interface Kit is required.

This enables users to send and receive faxes directly to and from a Windows application and allows printing via the PC too. For the fourth function – scanning – additional software is required. A few products do not offer the scanning facility and will therefore not have the scanning icon in the logo. The following symbol depicts a multifunctional capable product.



OTHER ITEMS

FOR OFFICE PRODUCTS RANGE SEE PAGES 461–509
FOR FULL RANGE OF MULTIFUNCTIONAL CAPABLE PRODUCTS SEE PAGES 461–463

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MULTIFUNCTIONAL CAPABLE PRODUCTS

brother



The **Brother Fax 920** is the latest plain paper offering, aimed at the small business user. It boasts fast transmission speed (approx. 15 seconds), 20 page memory, 100 sheet paper cassette and a 48 speed dial function. The fax 920 also connects to your PC via optional MFL-Pro software.



The **Brother Fax 930** has similar features to the fax 920, as well as faster transmission speed of approx. 9 seconds, a 15 minute telephone answering recording time, full hands free capability. As with the Fax 920 the Fax 930 is fully PC compatible using Brother MFL-Pro software.



The **Brother Fax 1020 PLUS** offers advanced office features at a price you can afford. Packed with time saving functions, it has a reduced cost per copy to help minimise your outgoings. By linking the Fax 1020 to a PC you have a back up **copier** and **PC Fax/ Scanning** capabilities. The Fax 1020 PLUS also features a security facility which enables the fax to be locked, preventing unauthorised use whilst the machine is unattended.

Model	Fax 920	Fax 930	Fax 1020 PLUS
Group compatibility	ITU-T Group 3		
PC compatible	Using MFL-Pro Software (optional)		
Modem speed	9600bps	14,400bps	
FAX/TAM switch	Interface		
Answerphone built-in	n/a	Yes (15 mins)	n/a
Grey scales	64 Grey Scales		
Speed dial memories	16 one touch (32 speed dials)		24 one touch (36 speed dials)
Document feed capacity	10 pages		20 pages
Paper cassette	100 sheets		200 sheets
Memory	Up to 20 page		
Handset	Yes		
Dimension (W×D×H)	339×306×182mm		394×385×213mm
Weight	4.0kg		5.5kg
Cut sheet paper no	40-81-76		
Warranty	12 months on-site		

DON'T FORGET YOUR CONSUMABLES

DESCRIPTION	FOR USE WITH	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Brother Fax 920		45-88-10	127.00	➧	132.95	131.62	✂
Brother Fax 930		45-88-27	160.00	➧	167.95	166.27	
Brother Fax 1020 PLUS		86-53-48	178.35	➧	182.95	181.12	✂
CONSUMABLES & ACCESSORY							
Brother PC Link – MFL Pro Software	920/930/1020	86-55-06	71.64	74.95	74.20	73.46	
Brother Refill Roll	1020	22-87-10	21.74	22.75	22.52	22.30	
Brother Ribbon	920/930	25-71-76	17.63	18.45	18.27	18.08	

OTHER ITEMS
FOR OFFICE PRODUCTS RANGE SEE PAGES 462–509

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ALL-IN-ONE MULTIFUNCTIONAL PRODUCTS

brother



The **Brother FAX-1030 Plus** gives you the best of both worlds. High quality plain paper fax – no fading or curling and digital answering machine with up to 30 mins recording time – in an easy to use unit. Plain paper beats thermal hands down, it offers convenience, quality output, is easy to file and eliminates the need to recopy incoming faxes.



Brother MFC 9650N is a Network Ready Laser Multifunctional Fax machine. Whether you want to fax, print, scan or copy the MFC9650 series gives you outstanding performance in all these functions in one compact machine and at a press of a button.



Brother MFC 760 is a flatbed fax, colour printer, colour copier, colour scanner and PC fax, all-in-one. This model has a massive capacity of 600 page send and receive memory and prints 4ppm in colour and 7ppm mono at 1440 × 720dpi resolution. As a scanner it scans at 1200dpi with OCR.

Model	Fax 1030 Plus	MFC 9650N	MFC 760
Group compatibility	ITU-T Group 3		
Modem speed	14,400bps		
Answer phone built-in	Yes	N/A	
Print speed	–	12ppm	7ppm mono/4ppm colour
Speed-dial memories	100	132	–
Document feed capacity	20 sheet	30 sheet	50 sheet
Paper cassette	200 sheet	250 sheet (+ 250 sheet optional)	250 sheet
Memory	50 pages	210 pages	600 pages
Handset	Yes	No	
Dimension (W × D × H)	395 × 385 × 213mm	377 × 422 × 323mm	492 × 472 × 372mm
Weight	5.5kg	12kg	16kg
Cut sheet paper no.	40-81-76		
Warranty	12 months on-site		

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	Brother Fax 1030 Plus	22-53-06	CHECK ONLINE	➧	➧	FREE Call
NEW	Brother MFC 9650N	53-78-08	442.61	➧	449.95	447.25
NEW	Brother MFC 760	81-42-00	485.36	➧	498.95	493.96
	CONSUMABLES					
	Brother Toner Cartridge (TN 6300)	23-30-97	29.50	30.95	30.64	30.33
	Brother Black Ink Cartridge (for MFC-760)	52-95-90	11.90	12.45	12.33	12.20

OTHER ITEMS FOR OFFICE PRODUCTS RANGE SEE PAGES 461–509

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MULTIFUNCTIONAL CAPABLE PRODUCTS Panasonic



The **Panafax UF770** and **UF880 PC/LAN** compatible office laser faxes offer you superior performance and multifunctional flexibility. Includes 3 second quick scan, 10ppm recording speed, 250 cut sheet paper capacity, super smoothing and 72 hour document memory backup.



The **Panafax UF-895** and **UF-885** are designed to meet the high-volume communication requirements of today's busineses. They both have transmission speeds more than twice as fast as conventional faxes, massive built-in memory and tremendous paper handling capabilities.



Panasonic brings affordable multi-function plain paper facsimile with digital answering system to your desktop. The **KX-FM30**, serve as a printer, scanner and PC fax or IBM – compatible PCs running Microsoft Windows 95 or Windows 3.1.

Model	Panafax UF770 & Net	Panafax UF-895/885	Panasonic KX-FM330
Group compatibility	ITU-T Group 3		
PC compatible	Optional PC Interface Kit	Optional Parallel Port Interface	Interface
Fax/phone/a'phone switch	No		Yes
Answerphone built-in	No		Yes
One-touch dialling keys	40 (160 abbreviated)		18
Mercury compatible	Yes		
Document feed capacity	50 sheets		150 sheets
Memory	70 pages	120/60 pages	28 pages
Handset	No		Yes
Dimensions (W×D×H)	430×415×280mm	440×450×310mm	146×367×355mm
Weight	15kg	16kg	5.2kg
Cut sheet paper no.	40-81-76		
Warranty	12 months on site		

NB. Products featured include on site cover.

DON'T FORGET YOUR CONSUMABLES

All Faxes with one year on-site warranty

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Panafax UF-770	06-17-69	1087.59	▶	▶	1099.00
Panafax UF-770 Net	06-30-96	1275.62	▶	▶	1289.00
Panafax UF-885	06-17-77	1034.15	▶	▶	1045.00
Panafax UF-895	06-53-60	1251.87	▶	▶	1265.00
KX-FM330	47-17-73	203.31	▶	209.00	206.91
Panafax UF-585	47-17-23	422.00	▶	429.00	426.43
Panafax UF-595	47-70-24	549.61	▶	565.00	559.35
CONSUMABLES/ACCESSORIES	**FOR USE WITH**				
Toner	Panafax 770	84-82-24	95.53	99.95	98.95	97.96
Connectivity Install for Networked versions	—	29-53-51	99.00	99.00	99.00	99.00

OTHER ITEMS FOR OFFICE PRODUCTS RANGE SEE PAGES 461–509

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

GUIDE TO FACSIMILE PRODUCTS

Recent years have seen some major advances in the facsimile market, for example the advent of plain-paper fax machines, multifunctional fax machines and so on. Today, consumers are faced with increased choice and much lower prices. This guide will assist you in choosing a fax machine which best suits your needs.

TYPES OF FAX MACHINE

There are two major types of facsimile machines – **thermal paper facsimile** and **plain paper facsimile.**

Thermal fax machines use thermal transfer technology and produce output on a roll of thermal paper. Some are available with built-in paper cutters and paper curl reduction devices.

Plain paper fax machines use a variety of printing technologies (thermal, inkjet and laser transfer) and produce output on cutsheet paper. This means that your faxes will not curl or fade. Also the cost per copy tends to be lower than thermal roll machines, an obvious advantage for high volume users.

You may decide that you want your fax machine to perform other tasks such as printing, scanning and copying. If so, there are two further alternatives to consider – **all-in-one multifunctional facsimile** and **multifunctional capable facsimile.**



All-in-one multifunctional products are fax machines, printers, copiers and scanners in one complete unit. They are ideal for small businesses in that they will make the most of your budget and will save you valuable desktop and office space. They are designed to connect directly to your PC and allow you to send and receive faxes directly from your Windows application. For the full range of all-in-one multifunctional devices, please refer to pages 453–471.

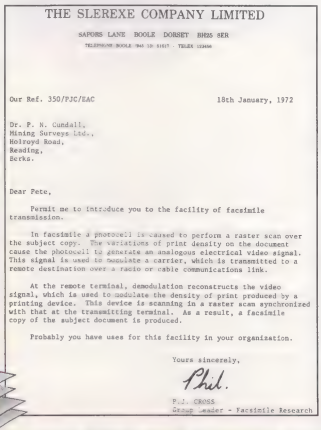
Multifunctional capable products differ from the all-in-one machines for a number of reasons. Importantly, a separate PC Interface Kit has to be bought to connect the device to your PC. This allows you to send and receive faxes via your PC. Also, additional software is required to give the device the capability to scan, print and copy. For a full introduction to multifunctional capable devices, please refer to page 452.

GLOSSARY OF TERMS

Here is an explanation of features that will impact on your choice of fax machine.

Anti-Curl Mechanism

Some thermal fax machines offer an anti-curl bar to prevent incoming faxes curling excessively.



THE SLEREXE COMPANY LIMITED

SAPORS LANE BOOLE DORSET BH25 8ER

Our Ref. 350/PJC/EAC 18th January, 1972

Dr. P. N. Cundall,
Mining Surveys Ltd.,
Holroyd Road,
Reading,
Berks.

Dear Pete,

Permit me to introduce you to the facility of facsimile transmission.

In facsimile a photocell is caused to perform a raster scan over the subject copy. The variations of print density on the document cause the photocell to generate an analogous electrical video signal. This signal is used to modulate a carrier, which is transmitted to a remote destination over a radio or cable communications link.

At the remote terminal, demodulation reconstructs the video signal, which is used to modulate the density of print produced by a printing device. This device is scanning in a raster scan synchronized with that at the transmitting terminal. As a result, a facsimile copy of the subject document is produced.

Probably you have uses for this facility in your organization.

Yours sincerely,

Phil.

P.J. CROSS
Group Leader - Facsimile Research

Delayed Memory Transit

A feature allowing documents to be scanned into memory for transmission at a later time.

Document Feeder Capacity

The number of sheets the machine can hold to send at one time.

Fax/Telephone Switch

A switch which intercepts incoming calls and automatically diverts them into either fax receive mode (fax messages) or telephone ringing (voice calls).

Group Compatibility

In order for one fax machine to 'talk' to another, they must both adhere to the same standard or group. All facsimiles in the Action catalogue are ITU-T Group 3 compatible which is the current accepted standard for fax machines.

Integral Answering Machine

Whether the machine incorporates a built-in answering machine facility.

Mercury Button

Whether a machine provides a Mercury access facility via a dedicated button.

No. of Greyscales

The number of greyscales the machine has – the more the better when faxing photos.

One/Two-Touch Speed Dial

The number of keys on the autodialler which can store frequently used numbers accessible at the touch of one/two key.

Paper Cutter

Denotes machines with an intergral guillotine to cut incoming faxes to size (thermal machines only).

PC Connectivity

Some of the plain paper fax machines have the capability to connect directly to a PC which enables faxes to be sent and received directly onto a Windows application. This enables savings on paper costs as hard copies can be printed out later if necessary. PC connection is possible either via a built-in interface on the fax machine itself or with the use of a separate interface kit. Please refer to pages 461–463 for a wide selection of multifunctional capable fax machines.

For more details check www.action.com.

OTHER ITEMS

FOR PLAIN PAPER FAX MACHINES SEE PAGES 465–473

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FAX CONSUMABLES

Action's ever increasing range of fax machines brings with it an abundance of branded consumables for all your faxing needs. Below you can find a selection form our vast portfolio of fax consumables. More consumables are listed on the product pages (pages 461–473).







DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Toshiba Processor Unit for TF861/TF651	25-11-41	144.77	◗	149.95	148.45	✂
Ricoh Processor for Fax 570/580	25-71-14	13.38	14.00	13.86	13.72	
Brother Drum Unit for 5000P	70-92-15	79.29	82.95	82.12	81.30	✂
Brother Ribbon for Fax 920/930	25-71-76	17.63	18.45	18.27	18.08	
Brother Toner for Fax 5000P	42-62-68	18.40	19.25	19.06	18.87	
Brother Fax 1200P Cartridge	82-21-47	20.02	20.95	20.74	20.53	✂
Muratec Toner Kit for F95	25-87-73	54.43	56.95	56.38	55.82	✂
Muratec Drum Kit for F95	25-87-80	46.79	48.95	48.46	47.98	✂
Xerox Turbo Cartridge for DFC model	47-49-66	10.47	10.95	10.84	10.73	
OKI Fax Ribbon for OKIFAX 600 series	12-08-96	12.86	13.45	13.32	13.18	
Sharp Imaging film for FO1460	68-54-70	13.91	14.55	14.40	14.26	
Sharp Imaging film for FO1450	68-18-52	15.05	15.75	15.59	15.44	✂
Sharp Thermal Ink Ribbon for UX370/470	22-12-46	7.99	8.45	8.37	8.28	
Sharp Toner Cartridge for FO5200TC	22-27-30	19.56	21.95	21.29	20.25	
Sharp Toner Cartridge for FO3600	25-73-27	43.01	45.00	44.55	44.10	
Sharp Drum Unit for FO2600/2700	81-83-95	42.01	43.95	43.51	43.08	✂
Sharp Drum Unit for FO4850	68-66-44	69.73	72.95	72.22	71.50	✂
Panasonic Fuser Unit for UF750	22-90-63	121.55	◗	124.95	123.70	✂
BT Ribbon for Image 350/370 (2 pack)	22-91-66	15.25	15.95	15.79	15.63	
BT Ozone for BF800	77-22-59	15.25	15.95	15.79	15.63	✂
Sagem Toner Catridge for 710i	83-63-08	42.53	44.50	44.06	43.61	
Sagem Connection Kit for 710	83-63-15	76.42	79.95	79.15	78.36	✂

Please call Action if the consumables you require are not listed.

OTHER ITEMS

FOR FAX MACHINES SEE PAGES 468–473
FOR MULTIFUNCTIONAL PRODUCT GUIDE SEE PAGE 460

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

WELCOME *to the sixth issue of the Plain Paper Fax Machine Product Selector.*

It's your handy reference to the current range of plain paper fax products on offer from Action Catalogue edition 86.

SEE *at glance what's what - all the essential information you need about each of the products is here, positioned to make it easy to locate and easy to read.*

PRODUCT	SHARP FO-1460	CANON B-155	SAMSUNG 5800/P	SAMSUNG SF 4500/C	CANON L350	SAMSUNG SF3100
PRINTER TYPE	Thermal Transfer	Bubblejet	Laser	Inkjet	Laser	Inkjet
GROUP/S	3	3	3	3	3	3
MODEM SPEED	9'600	14,400	14,400	14,400	14,400	14,400
DATA COMPRESSION	Mh,Mr, Mmr	Mh,Mr, Mmr,Ecm	Mh,Mr	Mh,Mr	Mh,Mr, Mmr	Mh,Mr, Mmr,Ecm
PRINT RESOLUTION	200x400dpi	360dpi	300dpi	300dpi	400dpi	300dpi
PRINT SPEED (PPM)	2ppm	2ppm	8ppm	7ppm	4ppm	4ppm
MAX DOC WIDTH	A4	Letter	A4	A4	A4	A4
MAX SCAN WIDTH	A4	A4	A4	A4	A4	A4
DOCUMENT FEEDER CAP.	20 pages	20 pages	30 pages	30 pages	30 pages	15 pages
PROP FAST SPEED	9 secs	6secs	3 secs	3 secs	3 secs	10 secs
MEMORY	30 pages (512KB)	21 pages	80 pages	1MB	160 pages	80 pages
ONE-TOUCH S/DIALS	38	10	NA	NA	32	5
TWO-TOUCH S/DIALS	61	20	100	70	100	50
ALPHA DIALLING	Yes	No	Yes	Yes	Yes	No
PROGRAMMABLE KEYS	2 plus 2 group	1	None	None	1	TBA
JOB RESERVATIONS	Yes	Yes	Yes	Yes	Yes	TBA
ID-CODED ACCESS	No	Yes	No	Yes	Yes	TBA
POLLED LOCATIONS	1	31	NA	NA	121	TBA
FAX/TEL SWITCH	Yes	Yes	Yes	Yes	No	Yes
TAM INTERFACE	Yes	Yes	Yes	Yes	No	Yes
INTEGRATED ANS MACH.	No	No	No	No	No	Yes (3100T VERSION)
EXTRA FINE MODE	Yes	Yes	No	No	No	Yes
SMOOTHING	No	No	Yes	No	Yes	No
NO GREY SCALES	64	64	NA	NA	64	64
MULTI-FILE MEMORY	No	Yes	No	Yes	Yes	TBA
DUAL ACCESS	No	Semi	No	No	Yes	No
BROADCAST LOCATIONS	20	31	None	5	121	60
CONFIDENTIAL SEND	No	No	No	Yes	Yes	TBA
OUT OF PAPER RECEIVE	Yes	Yes	No	Yes	Yes	Yes
DELAY MEMORY TRANSIT	Yes	Yes	No	Yes	Yes	Yes
QUICK SCAN	No	No	No	No	No	No
STD RECEIVE PAPER	200	100	30	30 A4	250	100A4
SIZE (WXDXH) mm	365x353x193	444x307x337	355x415x238	355x365xx238	380x483x304	383x310x210
WEIGHT	4.7kg	5.4kg	8kg	5.7kg	12kg	5.8kg
CAT NUMBER	68-42-290	22-52-92	47-53-65 47-53-47	47-17-88 47-31-06	22-52-90	47-94-88 47-17-34
PAGE NO.	472	472	470	470	473	473

Sharp FO-1460



BT BF 900



BT PaperJet 100



Samsung SF3100



SAMSUNG SF 5100	PaperJet 100/200	BT BF900	OKIFAX 250	PANAFAX UF-333	SHARP UX-370	SHARP UX-470
Laser	Inkjet	Inkjet	Thermal Transfer	Inkjet	Thermal	Thermal Transfer
3	3	3	3	3	3	3
14,400	14,400	9,600	14,400	14,400	9,600	9,600
Mh, Mr	Mh,Mr	Mh,Mr	Mh,Mr	Mh,Mr	Mh,Mr	Mh,Mr
300dpi	200dpi	600dpi	200dpi	300dpi	200x400dpi	200x400dpi
6ppm	2ppm	2ppm	2.5ppm	2ppm	2ppm	2ppm
A4	A4	A4	A4	A4	A4	A4
A4	A4	A4	A4	A4	A4	A4
20 pages	15 pages	30 pages	10 pages	20 pages	10 pages	10 pages
3 secs	NO	NO	20 secs	6 secs	8 secs	8 secs
160 pages	20 pages	NA	20 pages	30 pages (512KB)	30 pages	30 pages
10	None	NA	5	15	5	5
80	20	None	50	34	40	40
Yes	Yes	Yes	Yes	Yes	Yes	Yes
None	None	None	5	None	None	None
Yes	No	No	No	Yes	No	No
Yes	No	No	No	No	No	No
NA	1	128	1	61	1	1
Yes	Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes	No
No	Yes	No	No	No	No	Yes
No	Yes	Yes	No	Yes	Yes	Yes
No	No	No	No	Yes	No	No
NA	16	16	16	64	16	16
Yes	No	No	No	Yes	Yes	Yes
No	No	No	No	Yes	No	No
None	None	128	None	61	None	None
Yes	No	No	No	No	No	Yes
Yes	No	Yes	No	Yes	Yes	Yes
Yes	No	Yes	No	Yes	Yes	Yes
No	No	No	No	No	No	No
30	30 A4	50 A4	50 A4	100A4/LETTER/LGL	60 A4	60 A4
375x325x227	435x350x290	360x270x310	357x253x100	380x378x96	340x256x175	340x256x175
7kg	6.6kg	5kg	3kg	8.5kg	3.2kg	3.2kg
31-35-96	53-00-76 22-52-22	47-30-88	90-53-05	85-88-05	47-70-22	47-49-47
470	469	469	468	468	471	471

PLAIN PAPER FAXES

Panasonic



OKI FAX 250 is a complete voice, fax and copy solution for home users, and a one-per-desk answer for company users looking for personal fax convenience and confidential operation from the desktop. Elegant enough for any home or desktop, the OKI Fax 250 is an ultra-compact plain paper fax with integrated telephone handset. It offers simple, quality fax and telephone functions, plus convenience copying.



The **Panasonic UF-333** InkJet plain paper fax offers high speed 6 second communication enabling an economical send/receive environment. The 30 page flash memory, dual access operation, 64 level half-tone and book transmission/copy ensures the best possible accuracy in sending and receiving of documents.

Model	OKIfax 250	Panafax UF-333
Group compatibility	ITU-T Group 3	
Fax/phone/a'phone switch	Yes	
Transmission time	20 secs	6 secs
Answerphone built-in	TAM interface	TAM interface
One touch dialling keys	5 direct, 50 name dials	28 stations, 72 abbreviated
Document feed capacity	10 sheets	20 sheets
Grey scales	32	64 level half-tone
Memory	20 page	30 page Flash Memory
Handset	Yes	n/a
Dimensions (W × D × H)	357 × 253 × 100mm	380 × 378 × 196mm
Weight	3kg	8.5kg
Cut sheet paper no.	40-81-76	
Warranty	12 months return to base	12 months on-site

DON'T FORGET YOUR CONSUMABLES

	DESCRIPTION	FOR USE WITH	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	OKIfax 250 Thermal Transfer Fax		90-53-05	142.84	➧	147.95	146.47
✂	Panasonic Panafax UF-333		47-17-78	359.00	➧	374.00	371.76
	CONSUMABLES						
	Cut Sheet Paper	All Models	40-81-76	11.54	12.95	12.56	12.18
	Black Cartridge	UF333	94-93-05	20.98	21.95	21.73	21.51

OTHER ITEMS
FOR OFFICE PRODUCTS SEE PAGES 461–509

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PLAIN PAPER FAXES

BT





BT PaperJet 100/200
FEATURES:

DON'T FORGET YOUR CONSUMABLES

- Inkjet print technology.
- 50 page A4 paper cassette.
- 5 sheet ADF.
- 14.4kbps for fast transmission.
- LCD (16 characters).
- On-hook dialling.
- 20 number memory (plus 9 one-touch for 100 model/5 for 200 model).
- Delayed transmission.
- 1 built-in TAM interface for 100 model/Integrated digital answering machine with 20 mins recording time for 200 model.
- Integrated handset.

BT BF900

- New low cost easy to use laser plain paper fax and copier for all business sizes.
- 180 fax number memory.
- 600dpi laser print quality.
- PC Connection capability.
- Optional software package for laser printing, scanning plus sending and receiving faxes from your PC.
- Optional upgrades to let the fax grow your business.

Model	BT PaperJet 100	BT PaperJet 200	BT BF900
Print engine	Inkjet		Laser
Group compatibility	ITU-T Group 3		
Fax/answerphone switch	Yes		
Answerphone built-in	TAM interface	Yes	No
Mercury compatible	Yes		No
Mercury button	Yes		N/A
Document feed capacity	5 sheets ADF		30 sheet ADF
Weight	6.6kg	7.0kg	5kg
Dimensions (W × D × H)	435 × 350 × 290mm		360 × 270 × 310mm
Memory	20 pages		N/A
Warranty	12 months		

DESCRIPTION		CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
BT PaperJet 100		53-00-76	139.99	➧	145.00	143.55	✂
BT PaperJet 200		22-52-22	170.19	➧	174.95	173.20	✂
BT BF900		47-30-88	442.61	➧	449.95	447.25	
CONSUMABLES	**FOR USE WITH**						
Cut Sheet Paper	For above models	40-81-76	11.54	12.95	12.56	12.18	

OTHER ITEMS FOR OFFICE PRODUCTS RANGE SEE PAGES 461–509

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PLAIN PAPER FAXES

SAMSUNG ELECTRONICS



Samsung SF5800
- Laser print technology, 8ppm.
- Full Dual Access.
- 30 sheet ADF.
- 14.4Kbps Modem/6 Second TX.
- 109 Location Broadcast.
- 3 seconds quick scan.



Samsung SF4500
- Inkjet print technology.
- 80 page memory.
- 20 one touch dials/50 speed dial.
- 3 seconds document scan.
- Power-off emergency dialling.
- 99 page copier.



Samsung SF5100
- Laser print technology.
- 20 sheet ADF.
- 160 page, out of paper memory.
- 6ppm print speed.
- Broadcast and group dial.
- Up to 3,500 page toner yield.
- Power/Toner save mode.

Model	Samsung SF 5800	Samsung SF 4500	Samsung SF 5100
Print technology	Laser	InkJet	Laser
Group compatibility	ITU-T Group 3		
Modem speed	14.4Kbps		
Speed dialling keys	100	70	10 one-touch/80 coded
Transmission speed	8ppm max	7ppm max	6ppm max
Document capacity	30 sheet ADF		20 sheet ADF
Paper tray capacity	150 sheets	130 sheets	150 sheets
Memory	80 pages	1MB document reception	160 pages
Handset	NO	YES	
Dimensions (W×D×H)	355×415×238mm	355×365×1893mm	375×325×227mm
Weight	8kg	5.7kg	7kg
Warranty	12 months		

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	Samsung SF5800P (MFP)	47-53-65	417.32	▶	429.00	424.71
✂	Samsung SF5800	47-53-47	335.60	▶	345.00	341.55
	Samsung SF4500	47-17-88	213.04	▶	219.00	216.81
	Samsung SF4500C (MFP)	47-31-06	255.85	▶	265.00	262.35
NEW	Samsung SF5100	31-35-96	259.71	▶	269.00	266.31

OTHER ITEMS
FOR RANGE OF FURNITURE SEE PAGES 487–501
FOR RANGE OF STORAGE SOLUTIONS SEE PAGES 527–533

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PLAIN PAPER FAXES

SHARP

Introducing two new low-cost, entry level, plain paper fax machines from Sharp – the **UX-370** and **UX-470.** Both machines offer the small office/home-office user full versatility and reliability in a compact design.

The **UX-370** and **UX-470** prove to be superb value, utilising thermal transfer technology and offering.



47-70-22



47-49-47

Sharp UX-370 and UX-470
FEATURES:

- 30 page memory (512KB).
- 60-sheet paper capacity.
- 9,600bps (15 sec transmission speed).
- 10 sheet auto document feeder.
- 30m thermal ribbon.
- Super fine/fine/standard resolution.
- 64 level halftone.
- Telephone answering machine interface.
- Caller ID.
- Delayed send.
- Anti junk numbers.
- Silent receive.

Additional features for UX-470:

- Telephone answering machine
  - 24 mins recording time
  - remote access
  - memo recording
  - time stamp

Model	UX-370	UX-470
Group Compatibility	ITU-T Group 3	
Fax/phone/a'phone switch	N/A	YES
Answerphone built-in	N/A	YES
One-touch dialling keys	5 one touch/40 two touch	
Mercury compatible	Yes	
Document feed capacity	60 (10 sheet ADF)	
Handset	Yes	
Dimensions (W × D × H)	340 × 256 × 175mm	
Weight	3.2kg	
Cut sheet paper no.	40-81-76	
Warranty	12 months on-site	

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Sharp UX-370	47-70-22	120.57	▶	123.95	122.71
Sharp UX-470	47-49-47	150.73	▶	154.95	153.40
CONSUMABLES					
Sharp Thermal Ink Ribbon	22-12-46	7.12	7.79	7.75	7.52

DON'T FORGET YOUR CONSUMABLES

OTHER ITEMS

FOR PLAIN PAPER FAX GUIDE SEE PAGES 468–473

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶ Save £££'s!
▶▶ Check live stock
▶▶ Track order status

PLAIN PAPER FAXES

SHARP Canon





The **FO-1460** from **Sharp** is an advanced plain paper laser fax with an easy to replace super black image ribbon. Compact and stylish in its design, it features, 30 page memory, 20 page automatic document feeder, 200 sheet paper capacity, a copy function and 99 number automatic dialler.

The **B-155** is the latest mono BubbleJet plain paper fax from **Canon**, offering superb quality and features at an affordable price. Canons BubbleJet printing technology produces crisp faxes and copies on ordinary plain paper. The memory feature stores up to 15 pages, ensuring documents are not lost if the paper or ink runs out. Inside the compact body of the B155, a powerful G3 modem ensures faxes are transmitted at just 6 seconds per page.

Model	FO-1460	B-155
Group compatibility	ITU-T Group 3	
Fax/phone/answerphone switch	Yes	
Paper capacity	200 sheets	100 sheets
Mercury button	Yes	
Transmission time	9 seconds	6 seconds
One touch dialling keys	38	10 one-touch/20 coded
Document feed capacity	20 sheets	
Memory	30 pages	15 pages-in/21 pages-out
Handset	Yes	Optional
Dimensions (W × D × H)	365 × 353 × 194mm	444 × 307 × 337mm
Weight	4.7kg	5.7kg
Warranty	12 months on-site	

DON'T FORGET YOUR CONSUMABLES

	DESCRIPTION	FOR USE WITH	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	Sharp FO-1460		68-42-20	153.51	◗	159.00	157.41
NEW	Canon B-155		22-52-92	175.05	◗	179.95	178.15
	CONSUMABLES						
	Cut Sheet Paper	Above Models	40-81-76	11.54	12.95	12.56	12.18
	Imaging Film (1460)	Above Models	68-54-70	13.91	14.55	14.40	14.26
	Canon Black ink cartridge (BX3)	B150	82-29-96	16.56	16.95	16.78	16.61

OTHER ITEMS

FOR RANGE OF OFFICE EQUIPMENT SEE PAGE 461–509

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PLAIN PAPER FAXES

Canon SAMSUNG



Canon's Laser Fax L350 makes advanced fax technology affordable to virtually any size business or workgroup. You can enjoy a super fast 3 seconds per page transmission speed, 6 page per minute print speed, a large memory, superior image quality, dual paper source and a host of productivity enhancing features. Everything you need to be competitive at any level. This model also features a 250-page cassette plus 100 page ASF.



The **SF3100** from Samsung is a space saving and versatile inkjet fax machine, with its 14.4Kbps modem, integral Telephone with caller ID, 300 × 300 dpi print resolution, skew-free document feeder, 50 name and number speed dial buttons and much more. The SF3100 is easily a fax machine capable of many things.

Additional features:

Inkjet print quality

- Plain paper fax and copy facilities
- Auto fax/telephone switch
- Photo contrast and superfine resolution

Model	Canon L350	Samsung SF3100T
Compatibility	ITU-T Group 3	
Fax/phone/answerphone switch	No	Yes
Answerphone built-in	No	Yes
One-touch dialling keys	32 one-touch/100 coded	5
Mercury compatible	Yes	
Document feed capacity	30 sheets	15 sheets
Memory	160 pages	80 pages
Handset	Optional	Yes
Dimensions (W × D × H)	380 × 483 × 304mm	383 × 310 × 210mm
Weight	13kg	5.8kg
Cut sheet paper no.	40-81-76	
Warranty	12 months on-site	

DESCRIPTION		CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Canon L350	DON'T FORGET YOUR CONSUMABLES	22-52-90	531.08	▶	545.95	540.49	NEW
Samsung 3100		47-94-88	143.00	▶	148.95	147.46	✂
Samsung SF3100T (TAM version)		47-17-34	178.61	▶	185.00	183.15	✂
CONSUMABLES	**FOR USE WITH**						
Cut Sheet Paper	All above models	40-81-76	11.54	12.95	12.56	12.18	
Ink Ribbon	Samsung SF3000	38-28-16	30.54	31.95	31.63	31.31	

OTHER ITEMS

FOR OFFICE PRODUCTS RANGE SEE PAGES 461–509

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DIGITAL ENHANCED CORDLESS TELEPHONES

BT



Diverse 3010
Digital Cordless Phone with Caller Display
- Expandable, up to five handsets, to grow as your office/home grows
- 10 number directory
- Intercom between two or more handsets
- When used with BT's Caller Display service, you can see call information via the LCD, such as the number of the person calling
- 120 dynamic channel selection

Diverse 3000 & Charger
Digital Cordless additional handset and charger, ideal for use with other Diverse 2000 and 3000 products
- 10 number directory
- Intercom between two or more handsets
- Call timer shows the duration of the call on the LCD screen
- Automatic 'switch to line' will allow you to automatically connect to the telephone line when picking up the handset from rest from the charging unit
- The 5 most recently dialled numbers are stored and can be accessed again at the touch of a button.

Diverse 3016
Digital Cordless Phone with Caller Display and digital answering machine with up to 15 minutes recording time
- Up to 15 minutes digital (tapeless) recording allows consistent quality reproduction and fast resetting
- 10 number directory
- Intercom between two or more handsets
- When used with BT's Caller Display service, you can see information via the LCD, such as the number the person calling
- Group listening via the base unit allows others to listen to calls
- Remote access allows you to access your messages from another tone dialling phone.

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	BT Diverse 3010 Classic & Caller Display	53-01-63	56.39	59.00	58.41	57.83
NEW	BT Diverse 3010 Executive & Caller Display	22-52-84	70.73	74.00	73.26	72.53
NEW	BT Diverse 3016 Classic Answer Machine & Caller Display	12-11-72	90.80	95.00	94.05	93.11
NEW	BT Diverse 3000 Classic additional Handset & Charger	53-01-30	48.75	51.00	50.49	49.99
NEW	BT Diverse 3000 Executive additional Handset & Charger	38-30-59	62.13	65.00	64.35	63.71

OTHER ITEMS
FOR FULL OFFICE EQUIPMENT RANGE SEE PAGES 461–509

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DECT PHONES/PHONE ANSWER MACHINE & G.A.P.



BT Diverse 2020 Pocket
- Up to 100 name and number directory.
- 4 line, illuminated graphic LCD.
- 5 last number redial.
- Calls list and timer.
- Up to 300m outdoor range and 50m indoor range (both in ideal conditions).
- Up to 9hrs talk-time and 90hrs standby.
- W43 × D20 × H137mm.
- Caller Display*

*A separate quarterly fee is payable



Synergy 2120
- Range of up to 50 metres indoors/300 metres outdoors.
- 20 name and number directory.
- Can register up to 5 additional Synergy sets.
- Last 5 number redial.
- Simultaneous internal/external calls.
- Speech volume control.
- Easy menu driven handset (via 2 line LCD).



NEW!

Synergy 2150
- 14 minute digital recording time.
- Range of up to 50 metres indoors/300 metres outdoors.
- 20 name and number directory.
- Caller display.
- 2 outgoing messages.
- Call screening.
- Time and date stamp.
- Can register up to 5 Synergy additional sets.
- Last 5 number redial.
- Simultaneous internal/external calls.
- Voice prompt, remote access.
- Hands-free via the handset.
- Easy menu driven handset (via 2 line LCD).
- Answer machine.

Synergy 2100 Series Handset and Charger
- Compatible with Synergy 2120 and 2150.
- 20 name and number directory per handset.
- 2 line LCD.



G.A.P. = Generic Access Protocol

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
BT Diverse 2020 Pocket Phone & Caller Display	31-35-28	87.94	92.00	91.08	90.17	✂
BT Diverse Cordless Socket for Fax/Answering Machine & Caller Display	47-59-89	90.75	94.95	94.00	93.06	
BT Synergy 2120	53-00-95	56.39	59.00	58.41	57.83	✂
BT Synergy 2150 & Caller Display	37-00-62	69.77	72.99	72.26	71.54	NEW
BT Synergy 2100 Handset and charger	53-78-45	42.06	44.00	43.56	43.12	

OTHER ITEMS

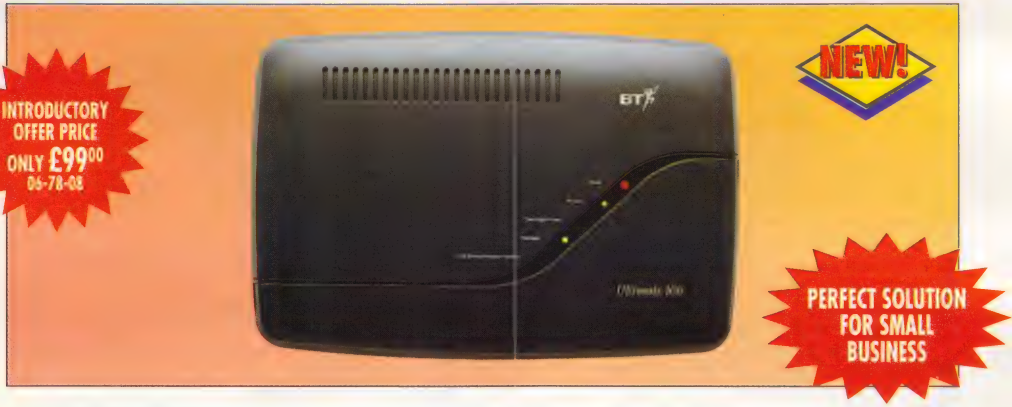
FOR FULL OFFICE EQUIPMENT RANGE SEE PAGES 461–509
FOR ORGANISERS SEE PAGES 112–125

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

TELEPHONE SYSTEM

BT

Ultimate 106 1+6 telephone system



FEATURES:

- **Call Director:** Routes calls direct to the extension required.
- **Personal voicemail for each individual extension.**
- **Talking Caller ID:** Announces the number of the caller or the name if stored in the memory.
- **Day and night mode:** Allows you to control at what time your extensions will ring.
- **Simultaneous internal and external calls:** Can make 1 external call as well as 2 internal calls, simultaneously.
- **Automatic call back:** Lets you know when the line is free, when another extension is free or when the person you are calling is off the phone.
- **Optional door intercom/entry system:** Allows you to talk to visitors or unlock the door from any extension. Visitors can leave a message on voicemail when you are out. Door intercom calls can be forwarded to an external number where you can be reached (eg, mobile number).
- **Privacy on calls:** Other extensions cannot listen in or interrupt a call.
- **Hotline extension:** Lift the handset and a pre-set number is automatically dialled.
- **Music on hold:** Plays music whilst callers are on hold. Compatibility with CD player enables own recordings to be played.
- **Payphone extension:** Direct access to outside line with no need to dial 9 or install an additional line.
- **50 memory speed dialling:** Stores up to 50 numbers in 2-digit locations which allows easy access to frequently used numbers.
- **Easy customer installation:** All parts required for the installation are supplied with the Ultimate 106 Installation Kit. The system is easy to set up and can be programmed with the use of any existing TouchTone phone.
- **Dedicated fax extension:** Fax calls can be directed straight to the fax machine, or with Call Sign, the user can identify if the incoming call is a fax or telephone call.

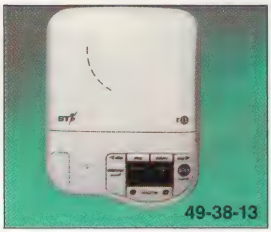
	DESCRIPTION	CAT NO	Web Price	PRICE EACH (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	BT Ultimate 106 1+6 Phone System	37-00-70	130.34	➧	135.00	133.65
NEW	BT Ultimate 106 wiring Kit	53-78-58	21.03	22.00	21.78	21.56
NEW	BT Ultimate 106 Door Intercom	64-78-80	51.57	53.95	53.41	52.88
NEW	BT Ultimate 106 Kit SPECIAL OFFER PRICE	06-78-08	192.13	➧	199.00	197.01
NEW	BT Ultimate 106 1+6 with Intercom excluding wiring	06-82-32	180.00	➧	185.95	184.83
NEW	BT Ultimate 106 1+6 with Wiring excluding intercom	06-15-24	150.00	➧	152.55	152.03

OTHER ITEMS
FOR FULL OFFICE EQUIPMENT RANGE SEE PAGES 461–509

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

BUSINESS TELEPHONE ANSWERING MACHINES

On this page we feature a range of business answering machines from **BT**. The **Response 160** uses micro-cassettes, while the others are fully digital. All come with a one year back to base warranty.



Response 15
- Call intercept.
- Call screening.
- Memo facility.
- Message capacity full alert.
- 14 minutes digital (tapeless) recording.
- Time and day stamp.
- **Colour:** White.



Response 70
- Call intercept.
- Call screening.
- Memo facility.
- Message capacity full alert.
- 14 minutes digital (tapeless) recording.
- Voice prompts.
- 1471 button.
- **Colour:** Metallic Silver.



Response 85
- Call intercept/screening.
- Memo facility.
- Message indicator (on mail box 2 and 3).
- Message capacity full alert.
- 54 minutes digital (tapeless) recording.
- Voice prompts.
- **Colour:** Dark Grey.



Response 123
- 10 name & number memory.
- 11 minutes digital recording time.
- Call Screening.
- Memo messages.
- Message indicator.
- Remote Access.
- Selective delete.
- Wall mountable.
- **Colour:** Alpine White/metallic grey.



Response 510
- 13 minute digital record time.
- 2 way recording.
- Message alert of destination.
- 20 number memory.
- LCD/clock.
- Voice prompts.
- 2 pre-recorded outgoing messages.
- Time/day stamp.
- **Colour:** Alpine White.



Response 310
- 13 minute digital record time.
- Pre-recorded outgoing message.
- Voice prompts.
- Time and day announcment.
- 13 number memory.
- **Colour:** Alpine White.

DESCRIPTION		CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
ANSWERING MACHINES	**COLOUR**					
BT Response 15	White	49-38-13	18.11	18.95	18.76	18.57
BT Response 70	Metallic Silver	49-38-37	22.45	23.49	23.26	23.02
BT Response 85	Dark Grey	49-38-51	32.45	33.95	33.61	33.27
TELEPHONE ANSWERING MACHINES	**COLOUR**					
BT Response 123	Alpine White	22-52-39	22.94	24.00	23.76	23.52
BT Response 123	Metallic Grey	12-11-45	22.94	24.00	23.76	23.52
BT Response 310	Alpine White	45-31-14	45.00	45.99	45.75	45.45
BT Response 510	Alpine White	85-40-12	64.00	65.99	65.33	64.68

OTHER ITEMS
FOR FULL OFFICE EQUIPMENT RANGE SEE PAGES 461–509

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

BUSINESS CORDED TELEPHONES

BT



Converse 120
- Call indicator.
- Last number redial.
- Ringer volume control.
- Secrecy button.



Converse 180
- Last number redial.
- Secrecy button.
- Ringer volume control.
- 10 number memory.
- On-hook dialling.
- Pause/save button.
- Call indicator.
- Easy access BT Select Services.



Converse 220
- 10 number memory.
- Call indicator light.
- Headset socket.
- Last number redial.
- Monitor call answering.
- Speech amplification.



Converse 320
- 20 number memory.
- Handsfree operation.
- Calculator.
- Call timer.
- Last number redial and repeat redial.
- Headset socket.



Converse 420
- 75 name and number directory.
- Hands free operation.
- Large liquid crystal display.
- Repeat dial.
- Headset sockets.



Converse 2-Line
- 3-way conference facility.
- 2-line funcionality.
- 20 number memory.
- Call indicator light for each line.
- Call timer.
- Handsfree operation.
- Hold facility.
- Last number redial.

ALL PHONES FEATURED ARE AVAILABLE IN BLACK OR WHITE EXCEPT CONVERSE 320 WHICH IS AVAILABLE IN WHITE OR CHARCOAL

DESCRIPTION	CAT NO WHITE	CAT NO BLACK	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
BT Converse 120	49-38-44	22-51-86	19.55	19.99	19.89	19.79
BT Converse 180	80-74-54	–	24.76	25.90	25.64	25.38
BT Converse 220	49-38-75	38-29-23	28.63	29.95	29.65	29.35
BT Converse 320	52-95-34	36-99-46	38.18	39.95	39.55	39.15
BT Converse 420	52-97-11	53-77-45	47.79	50.00	49.50	49.01
BT Converse 2-Line	47-59-27	–	57.30	59.95	59.35	58.76
BT Headset+earpieces for Converse 220/320/420	45-31-38	–	91.71	95.95	94.99	94.04

A one year back to base warranty comes as standard with all phones featured on this page.

OTHER ITEMS

FOR FULL OFFICE EQUIPMENT RANGE SEE PAGES 461–509
FOR TELEPHONE ACCESSORIES SEE PAGES 618–621

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

AUDIO-CONFERENCING — POLYSPAN

Polyspan SoundStation
SoundStation adapts automatically to changing room and telephone line conditions to permit natural, full-duplex (two-way) conversations without clipping or distortion.
- Echo cancellation and suppression.
- Integrated keypad Award winning design.
- Powerful speaker.
- For up to 10 people in a 20′ × 24′ room.
- Communications interface, 2 wire analogue PBX or PSTN.

Polyspan SoundStation Premier
SoundStation Premier sets a new standard in full-duplex audioconferencing quality. Incorporating revolutionary echo cancellation and noise reduction technology, SoundStation Premier virtually eliminates echoes and reverberation.
- State-of-the-art full-duplex technology rivals talking on a handset.
- Hypercardioid microphones for 360° pick-up, echo cancellation and automatic gain control.
- DSP technology produces Intelligent mic mixing for precision voice pick-up.
- Neodymium speaker produces hi-fidelity sound with dynamic, balanced range.
- 16 digit LCD displays caller ID, time of day and duration of call.
- Infra-red remote control offers one touch dialling from up to 15 feet away.
- Available with two optional hypercardioid microphones that extend 8 feet from the console for additional room coverage.
- Optional wireless microphone available for stand-up presenters.

Polyspan SoundPoint PC
SoundPoint PC deliver full-duplex business quality audio-conferencing capability to your desktop or office. For conferencing alone or in a group, desktop video conferencing, or Internet Telephony.
- Full-duplex analogue phone adjunct for the desktop or office.
- Rare-earth neodymium speaker for light-weight, hi-fidelity, distortion free sound.



- Hypercardioid microphone for echo-free, 180° pick-up.
- SoundPoint PC connects to your PC sound card for Internet technology or to your videoconferencing card for desktop videoconferencing.

Polyspan SoundStation Premier Satellite
The SoundStation Premier Satellite is a unique, enhanced sound system that works in conjunction with top-of-the-line SoundStation Premier conference phone to provide full-duplex audio-conferencing with unparalleled expandability.
- High-fidelity.
- Speakers Support for up to seven microphones.
- Featuring "Clarity by Polycom".

DESCRIPTION	CAT NO	Web Price	PRICE PER PACK £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Polyspan SoundStation Audioconferencing System	62-50-69	380.00	◗	385.00	384.00
Polyspan SoundStation Audioconferencing System (Expandable)	62-50-52	603.07	◗	619.95	613.75
Polyspan SoundPoint PC	89-52-08	217.18	◗	224.95	222.70
Polyspan SoundStation Premier (Non-expandable)	38-29-83	618.63	◗	635.95	629.59
Polyspan SoundStation Premier (Expandable)	53-00-15	840.00	◗	855.00	851.00
Polyspan Premier Satelite	12-10-96	1433.96	◗	◗	1449.00

OTHER ITEMS FOR VIDEO CONFERENCING SEE PAGES 325, 326

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DICTATION EQUIPMENT SANYO OLYMPUS





TRC 1148 Voice Activated Standard Cassette – 38-30-30
Voice activated for convenient hands-free recording, socket for tie clip mic (MM01) or telephone recording adaptor (TA103) 3 digit tape counter and earphone socket. Comes complete with case and cassette.

TRC 580C Voice Activated Micro Cassette Recorder – 22-52-35
Voice activation responds to your voice for convenient hands-free recording, conference record facility, microphone socket for use with a tie clip microphone (MM01) or telephone recording adaptor (TA103). Pause control for effective editing, three-digit tape counter for easy reference. Comes complete with cassette and carry case.

Microphone MM01 (37-00-38)
Tie Clip Microphone or Conference Microphone. Highly sensitive for picking up both discreet recording and meetings.

TRC 530C – Micro Cassette Recorder – 53-00-91
Pause control for easy editing, autostop at end of tape, conference record facility, earphone socket for confidentiality, AC socket for direct use from mains adaptor (CU3R). Comes complete with Micro cassette and carry case.

TRC 6030 Micro Cassette Transcriber – 12-11-42
The ideal transcriber for the audio typist. Backspace and playback speed controls for maximum accuracy, 3 digit tape counter, comes complete with headset, foot control and power adaptor.

Telephone Recording Adaptor (53-78-15)
Records 2 way telephone conversations or dictation over the phone. Simply attach to any portable or desktop machine with a mic socket. (Oftel) approved.



Olympus Digital Voice Recorder V-90
- Built-in flash memory.
- 8MB built-in memory 33 min recording on standard mode/90min on LP mode.
- Built-in 23mm round speaker.
- Use as voice note maker/reminder device.

Olympus Digital Voice Recorder DS-150 Dictation Starter Kit
- Built-in flash memory.
- 75 min recording time on standard mode/160 min on LP mode.
- Record on the DS150, download the digital voice files to your PC and send to your typist over the network or via e-mail when out of office.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Sanyo TRC 530C Micro Cassette Recorder	53-00-91	19.26	20.00	19.80	19.60
Sanyo TRC 580C Voice Activated Micro Cassette Recorder	22-52-35	24.08	25.00	24.75	24.50
Sanyo TRC 6030 Micro Cassette Transcriber	12-11-42	193.58	◗	199.00	197.01
Sanyo TRC 1148 Voice Activated Standard Cassette	38-30-30	19.26	20.00	19.80	19.60
Sanyo Microphone MM01	37-00-38	11.56	12.00	11.88	11.76
Sanyo Telephone Recording Adaptor	53-78-15	13.48	14.00	13.86	13.72
Sanyo MC603pk – Micro Cassette (**3 pack**)	64-78-28	5.26	5.50	5.45	5.39
Sanyo Olympus Pearlcorder S723	47-50-68	36.32	38.00	37.62	37.24
NEW Olympus V-90	22-53-01	60.08	69.99	67.19	64.50
NEW Olympus DS-150	12-11-82	178.56	◗	184.95	183.10

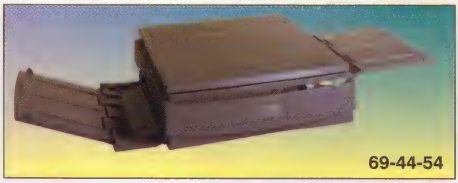
OTHER ITEMS
FOR FULL OFFICE EQUIPMENT RANGE SEE PAGES 461–509
FOR FURNITURE SEE PAGES 487–501

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

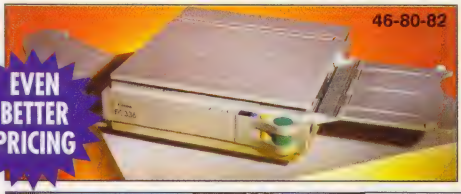
PLAIN PAPER PHOTOCOPIERS

Canon

On this page we feature **Canon's** range of personal photocopiers. All five models offer all-in-one maintenance free toner cartridge and are ecologically friendly. The **FC200** is a small copier ideal for the home or office. It has a single sheet capacity and produces 4 copies per minute. The **FC220** is compact and very portable. It has a 50 sheet capacity and produces 4 copies per minute.



The **FC336** is a compact desktop copier with a 50 sheet multi bypass and has the ability to copy from books & 3D. There's no warm up time and auto power off feature. It has a copying speed of 6 copies per minute and an optional choice of 4 colours for copying, all in 1 cartridge.



Canon introduces two new additions to their Photocopying range of products, the **PC890** and **PC860. No maintenance – all-in-one toner cartridge. Toner saving mode (up to 20%) and Photo mode. Fast 12 copies per minute. Instant copying – no warm up time. 250 sheet front loading cassette.**



Model	FC200	FC220	Canon FC336	Canon PC860	Canon PC890
Copies per minute	4	4	6	12	
Maximum original size	A4				
Zoom range (enlarging and reducing)	N/A			141% to 70%	
Paper tray capacity	1 sheet	50 sheets		250 sheets (front loading)	
Automatic exposure	No	Yes	Yes		
Consumable cat nos.	21-80-67	21-80-67	21-80-67	Canon All-in-one Black Cartridge (21-80-67)	
Dimensions (W × D × H)	359 × 398 × 104mm	359 × 397 × 104mm	359 × 407 × 108mm	297 × 484 × 448mm	389 × 484 × 448mm
Weight	8.4kg	8.4kg	9kg	20.3kg	26.8kg
Warranty	12 months on-site				

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Canon FC200 Plain Paper Copier	69-44-47	175.05	➧	179.95	178.15	✂
Canon FC220 Plain Paper Copier	69-44-54	252.87	➧	259.95	257.35	✂
Canon FC336 Plain Paper Copier	46-80-82	340.42	➧	349.95	346.45	
Canon PC860 Desktop Personal Copier	52-99-11	490.81	➧	498.95	495.96	✂
Canon PC890 Desktop Personal Copier	12-10-57	632.25	➧	649.95	643.45	✂

ACCESSORIES	FOR USE WITH	PAGE YIELD*	CAT NO				
Black Copier Cartridge	FC336, PC860, PC890	4,000	21-80-67	59.02	61.75	61.13	60.52
Black Copier Cartridge	FC-2/3/5, PC-6/7RE/11	4,000	20-76-45	56.35	58.95	58.36	57.78

*Page Yield based on 5% coverage.

OTHER ITEMS
FOR FULL OFFICE EQUIPMENT RANGE SEE PAGES 461–509

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

SHREDDERS/LAMINATORS

REXEL



Model	Security DIN level	Shred Size (mm)	Sheet Cap (80/70gsm)	Entry Width (mm)	Bin Capacity (Litres)	Auto Stop/Start	Safety Cut Out
Auto 10	2	5 8	4	230	16	Yes	No
M40	2	5 8	5/6	230	35	Yes	No
M90	2	5 8	10/12	230	35	Yes	No
M95	3	3×34	5/6	230	35	Yes	Yes
M100	2	5 8	12/14	230	35	Yes	No
M105	3	3×34	6/7	230	35	Yes	Yes
250	2	3 8	12/14	240	40	Yes	No



Rexel 10/M40/M90/M95/M100/M105 & 250 S2 Shredders.
Compact shredding machines ideal for both the home and/or small office use!
- Easy to use – no assembly required – now with LED (250 only).
- Space saving – fits neatly under your desk.
- Safe – reverse facility removes jammed documents.
- Security – choose the size and security level you need.
- Quality – 12 months parts and labour warranty.

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
✂	Rexel Auto Shredder 10 (EVEN LOWER PRICE)	12-08-54	28.67	30.00	29.70	29.40
✂	Rexel Auto Shredder M40 (EVEN LOWER PRICE)	22-49-68	41.10	43.00	42.57	42.14
✂	Rexel Auto Shredder M90 (EVEN LOWER PRICE)	52-95-06	65.95	69.00	68.31	67.63
✂	Rexel Auto Shredder M95 (EVEN LOWER PRICE)	52-95-10	80.29	84.00	83.16	82.33
NEW	Rexel Auto Shredder M100 (EVEN LOWER PRICE)	39-61-56	85.07	89.00	88.11	87.23
NEW	Rexel Auto Shredder M105 (EVEN LOWER PRICE)	77-93-90	105.24	♦	109.00	107.91
✂	Rexel 250 S2 Straight Cut (EVEN LOWER PRICE)	67-91-70	269.37	♦	279.00	276.21



66-76-42

LV250 A4 Personal Laminator
- Stylish new design.
- Accepts pouch sizes from ID to A4 size and up to 250 micron thickness (2×125).
- 4 operation settings.
- Fast warm-up time.
- 2 roller design, must be used with carrier.



69-00-94

LP30 A3 Pouch Laminator
- Accepts pouches up to 320mm wide.
- 4 roller design for carrier free operation.
- Fixed speed and temperature.
- Comes with starter pack of A4 and mini pouches.
- Weight: 5.3kg.

	DESCRIPTION	DIMENSIONS (mm)	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	LV250 A4 Personal Laminator	450×220×80	66-76-42	71.69	75.00	74.25	73.51
✂	LP30 A3 Pouch Laminator	488×205×98	69-00-94	92.71	97.00	96.03	95.07

	REXEL CONSUMABLES	WEIGHT	PACK					
	A3 Pouches	250 microns	100	69-08-05	32.62	38.00	36.48	35.02
	A3 Pouches	150 microns	100	69-08-12	24.29	28.30	27.17	26.08
✂	A4 Pouches	250 microns	100	77-84-97	12.88	15.00	14.40	13.82
✂	A4 Pouches	150 microns	100	69-08-36	11.12	12.95	12.43	11.93
NEW	Laminating Starter Pack (80 assorted pouches)	—	—	57-39-39	11.16	13.00	12.48	11.98

OTHER ITEMS
FOR FULL OFFICE EQUIPMENT RANGE SEE PAGES 461–509

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LABEL PRINTERS

CASIO

Whatever your business there are literally thousands of ways a Casio Label Printer can improve your presentation, safety and efficiency.





KL-C500-EJ
The new KL-C500EJ high-end multi-colour printing Label Printer from Casio can print on label width up to 46mm.

KL100E
Euro Function conversion key, QWERTY Keyboard, compact handheld, size 2 line printing.



KL7200E-UM
KL7200E Professional Style Label Printer.
- Up to 4 lines on 12mm tape.
- 6-digit LCD display.
- Top-loading cassette.
- 326-character memory for recall.



KL8100B-UM
Professional Style Label Printer New! Prints on 24mm tape! Including various magnetic tapes.
- Prints up to 8 lines on 24mm tape.
- 200dpi for outstanding resolution.
- Big 12-digit × 2-line display.
- Top loading cassette.

Available Colours

Tape Width mm	Compatibility: KL100	KL 7200E	KL 6500-EJ	KL 8100B-UM	Basic Colours	Fluorescent Colours
6	•	•	•	•		
9	•	•	•	•		
12	•	•	•	•		
18	●	●	●	●		
24		●	●	●		
36				●		
46				●		

LABEL PRINTER TAPES

KEY:

b/=black	w =white
b =blue	s =silver
r =red	p =pink
y =yellow	o =orange

eg: b/b = black text on blue tape
b/w = black text on white tape

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Casio KL100E Plus FREE Euro Conversion Calculator	46-54-49	32.00	35.99	35.63	35.27	
Casio KL-C500-EJ Label Printer	37-00-68	342.74	◗	355.00	351.45	NEW
Casio Euro Conversion KL-7200E- UM Label Printer	53-00-62	71.27	79.99	77.59	75.26	
Casio KL8100B-UM Label Printer	22-52-12	143.86	◗	149.00	147.51	
6mm blk/white tape	46-65-58	5.02	5.25	5.20	5.15	
9mm blk/white tape	46-64-48	5.73	5.99	5.93	5.87	
12mm blk/red tape	46-64-55	6.68	6.99	6.92	6.85	
18mm blk/white tape	46-64-62	9.07	9.49	9.40	9.30	
18mm blk/green tape	46-64-79	9.07	9.49	9.40	9.30	
24mm blk/white tape for KL8100, KL7200E only	46-64-86	11.37	11.90	11.78	11.66	
24mm magnetic tape for KL8100, KL7200E (Black/)	36-99-38	9.55	9.99	9.89	9.79	
24mm magnetic tape for KL8100, KL7200E (Black/Green)	64-77-41	9.55	9.99	9.89	9.79	
36mm blk/yellow tape for KL-500-EJ only (5 pack)	06-18-25	72.18	74.95	74.20	73.46	NEW
46mm blk/white tape for KL-500-EJ only (5 pack)	06-95-02	90.80	95.00	94.05	93.11	NEW
46mm blk/yellow tape for KL-500-EJ only (5 pack)	06-12-70	90.80	95.00	94.05	93.11	NEW

OTHER ITEMS

FOR LABEL MAKING SOFTWARE SEE PAGE 858
FOR STATIONERY SEE PAGES 1082–1098

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LABEL MAKERS

DYMO®

This page features a range of label makers from Esselte. All contain an LCD display with horizontal and vertical print orientation and come complete with a 12 months parts and labour warranty.



Dymo LetraTag 2000

- LCD screen and print preview feature for easy text editing.
- Vertical and horizontal print, 3 print sizes plus BIG CAPS.
- Different text styles, including outline, shadow, italic and underling.
- Auto-power save.
- Available in 3 translucent colours.



Dymo 5500

- Tab-cut feature.
- QWERTY keyboard.
- Barcode printer.
- Incremental numbering.
- Helvetica typeface, bold or italic.
- 690gms weight.
- 206 characters and symbols.
- Adaptor available.

DYMO TECHNICAL HELPLINE 0207 341 5529



Dymo Label Manager 100

- Clear eight character display and print review function for easy editing.
- Underline/box/shading facility.
- Three print styles – normal, italic, outline.
- Uses standard (DI) 9mm and 12mm Dymo tape.
- Weight: 490g.
- AC adaptor (optional).



Dymo 1000+

- Tab-cut feature.
- ABC keyboard.
- Specialist industrial symbols.
- Prints barcodes.
- Incremental numbering.
- Bold, italic and outline type.
- 480gms weight.
- 169 characters and symbols.
- Optional adaptor.

D1 Label for Dymo 1000+/5500 and LM100 (Pack of 5)

Black text on clear (9mm × 7mm)	45-91-32
Black text on yellow (9mm × 7mm)	45-91-49
Black text on white (12mm × 7mm)	40-67-45
Black text on blue (12mm × 7mm)	40-67-76
Black text on red (12mm × 7mm)	40-67-83
Black text on yellow (12mm × 7mm)	40-67-90
Black text on green (12mm × 7mm)	40-68-00
Black text on white (19mm × 7mm) – 5500 only	45-91-56

More label colours available.

Plastic Label Cassette for LetraTag 2000

Pearl White	64-77-61
Hyper Yellow	77-83-06
Cosmic Red	31-35-36
Acid Green	90-52-55
Ultra Blue	39-61-10

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Dymo Letratag (Blue) 2000 Tool	38-30-13	15.00	16.00	16.00	16.00
Dymo Letratag (Green) 2000 Tool	53-00-65	15.00	16.00	16.00	16.00
Dymo Letratag (Orange) 2000 Tool	37-00-24	15.00	16.00	16.00	16.00
Dymo Label/Manager 100	12-11-26	42.06	44.00	43.56	43.12
Dymo 5500 Label Maker – 300 × 120 × 72mm	82-82-37	114.84	◗	118.95	117.76
Dymo 1000+ Label Maker – 176 × 104 × 60mm	67-92-11	45.83	47.95	47.47	47.00
Dymo LetraTag Plastic Label Cassettes 12 × 4mm (**single**)	See above	3.25	3.40	3.37	3.33
Colour or Clear D1 Tape Cassette 9mm × 7m (**pack of 5**)	See above	35.36	36.99	36.62	36.25
Colour Label D1 Tape Cassette 12mm × 7m (**pack of 5**)	See above	38.22	39.99	39.59	39.19
Colour Label D1 Tape Cassette 19mm × 7m (**pack of 5**)	See above	48.75	51.00	50.49	49.99

OTHER ITEMS

FOR LABEL MAKING SOFTWARE SEE PAGE 858
FOR STATIONERY SEE PAGES 1018–1034

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LABEL MAKERS

DYMO®



LabelWriter EL40/EL60/ Turbo
Ideal for addressing envelopes and packages, shipping labels, diskettes, and much more.

Dymo LabelWriter EL40 (picture not show)
- Prints address, video spine and file labels. Prints labels up to 40mm wide.

Dymo LabelWriter EL60 (picture not shown)
- Prints address, shipping, disk, file, audio and video labels, name badges etc. Prints up to 60mm wide.

Dymo LabelWriter Turbo
- Prints in 2 seconds address, shipping, disk, file, audio and video labels, name badges etc. Prints labels up to 60mm wide.

System Requirements: Windows 95/98/NT4.0 or higher, CD-ROM, Serial port (Turbo also supplied with USB adaptor). EL60 and Turbo are also compatible with Macintosh running OS7.1 or later.

SOFTWARE UPGRADE EL60/TURBO ARE MAC COMPATIBLE

Dymo 9000
Versatile stand-alone or PC-linkable.
Prints onto continuous polyester self-adhesive tapes from 6mm to 32mm wide.

FEATURES:
- Unique, two tape system allows for multi-colour labels.
- Plus software to design labels on your PC.



Dymo PC-10
Turn your PC into a professional labelling system. Prints onto self-adhesive tape up to 32mm wide. The software also contains A4 templates for your standard printer.

FEATURES:
- Create the most complex designs featuring text, barcodes, pictures and even variable strings.



System Requirements:
IBM compatible PC (486+). Windows 3.1+ (incl. Windows 95), 4MB RAM and min. 4MB free hard disc space, 3½" disc drive, free serial port and mouse.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Dymo 9000	68-60-22	210.42	▶	217.95	215.77
Dymo PC-10	68-60-39	172.82	▶	179.00	177.21
Dymo LabelWriter EL40	53-00-64	90.00	94.00	93.95	93.50
Dymo LabelWriter EL60 **Unbeatable Price**	22-52-14	112.95	▶	115.95	115.95
Dymo LabelWriter Turbo	12-11-28	150.00	▶	155.00	155.00
CONSUMABLES					
Dymo 9000 D2 Ribbon/Ink Cartridge (19mm × 50m) – Black	46-39-39	8.90	9.99	9.69	9.40
Dymo 9000/PC10 D2 Tape Cassettes (12mm × 10m) – Yellow	45-91-70	5.69	5.95	5.89	5.83
Dymo 9000/PC10 D2 Tape Cassettes (12mm × 10m) – White	45-91-87	5.69	5.95	5.89	5.83
Dymo 9000/PC10 D2 Tape Cassettes (19mm × 10m) – Yellow	45-91-94	7.16	7.49	7.42	7.34
Dymo 9000/PC10 D2 Tape Cassettes (19mm × 10m) – White	45-92-04	7.16	7.49	7.42	7.34
EL40/EL60 Standard Address labels 28 × 89mm (260)	49-47-40	5.70	5.99	5.93	5.87
EL40/EL60 Large Address labels 36 × 89mm (520)	49-47-64	10.00	10.50	10.40	10.30
EL40/EL60 Shipping/Name Badge labels 54 × 101mm (220)	49-47-88	9.25	9.75	9.75	9.75
EL40/EL60 Diskette Labels 54 × 70mm (320)	49-47-95	10.00	10.50	10.50	10.50
EL40/EL60 Suspension File Labels 50 × 12mm (220)	49-48-12	4.50	4.85	4.85	4.85

OTHER ITEMS

FOR ESSELTE LABELS SEE PAGE 484

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LABEL PRINTERS

SII Seiko Instruments Inc



The user friendly **Smart Label Printer** makes it easy to mix and match fonts, graphics and bar codes all on the same label. Easily prepare customised formats with your own company logo complete with a post office approved bar code that can get your mail delivered faster – all without the hassle of using standard printers.
With a single mouse click, SmartCapture and address instantly from applications like Word, Act, Outlook, Goldmine, Palm Pilot Desktop and WordPerfect – you'll never have to retype.

Model	Smart Label Printer 100	Smart Label Printer 200	Smart Label Printer 220
Description	Sharp text and high quality images, USB and serial connection		Sharp text and high quality images, Serial connection
Label print time	6 seconds per label		3 seconds per label
Label size	Up to 28mm wide	Up to 54mm wide	
Resolution	203dpi		
Bar codes	Code 39, UPC-A, UPC-E, 12/5, Code 128 Codabar, EAN-13		
Uses	Perfect for envelopes, file folders, bar codes and more	Same as SLP 100, plus packages, diskettes, Zip disks, name badges, 35mm slides, Rolodex card and more	Same as SLP 100/200 but with super fast printing
Power supply	6V DC		12V DC
Dimensions (W×D×H)	114×190×168mm		
Weight	0.50kg		
Warranty	12 months off-site		

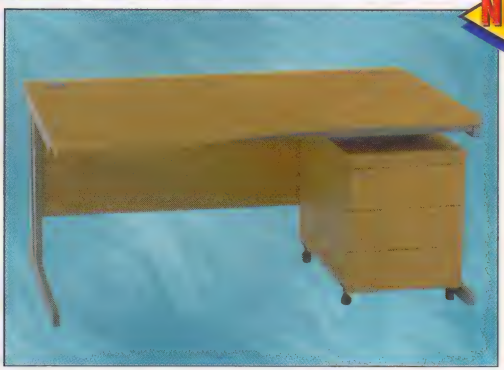
	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	Seiko Smart Label Printer 100	53-01-03	96.26	99.95	98.95	97.96
NEW	Seiko Smart Label Printer 200	12-11-50	138.08	➧	141.95	140.53
	Seiko Smart Label Printer 220	68-70-21	152.50	➧	157.95	156.37

LABELS	FOR USE WITH	SIZE (mm)	ROLL/ LABELS	CAT NO				
Standard, White	ALL	89×28	12×130	04-12-03	40.94	45.95	44.57	43.23
Standard, White	ALL	89×28	2×130	40-58-56	6.68	7.50	7.28	7.06
Standard, White	ALL	89×28	2×260	40-71-08	11.57	12.99	12.60	12.22
Shipping Labels	200/220	101×54	1×220	40-71-22	11.54	12.95	12.56	12.18
Coloured Labels	ALL	89×28	4×130 (4 Colours: blue, green, pink, yellow)	40-81-45	16.88	18.95	18.38	17.83
3½" Diskette Labels	200/220	70×54	1×320	40-71-15	11.54	12.95	12.56	12.18
Video Spine Labels	220	147×39	1×150	40-94-43	6.17	6.45	6.39	6.32
Video Top Labels	200/220	78×46	1×75	40-94-50	7.08	7.95	7.71	7.48

OTHER ITEMS
FOR LABEL MAKING SOFTWARE SEE PAGE 858
FOR FULL OFFICE EQUIPMENT RANGE SEE PAGES 461–509
FOR STATIONERY SEE PAGES 1018–1034

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

WAVE DESKING





WAVE DESKING

Top 18mm thick, colours available Cherry, Light Oak or Beech, widths available 1550mm and 1750mm wide. Metal leg frames dark grey fitted with levelling feet.Pedestal 3 drawer non-locking supplied on castors fits under the Wave desk.

DESCRIPTION	DIMENSIONS (W × D × H)	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
WAVE DESKING							
Cherry R/H	1550 × 800 × 720mm	22-53-05	188.27	◗	195.00	193.05	NEW
Cherry L/H	1550 × 800 × 720mm	12-11-85	188.27	◗	195.00	193.05	NEW
Cherry R/H	1750 × 800 × 720mm	37-00-73	211.44	◗	219.00	216.81	NEW
Cherry L/H	1750 × 800 × 720mm	53-78-61	211.44	◗	219.00	216.81	NEW
Light Oak R/H	1550 × 800 × 720mm	64-78-83	183.44	◗	190.00	188.10	NEW
Light Oak L/H	1550 × 800 × 720mm	77-83-71	183.44	◗	190.00	188.10	NEW
Light Oak R/H	1750 × 800 × 720mm	31-36-00	211.44	◗	219.00	216.81	NEW
Light Oak L/H	1750 × 800 × 720mm	90-53-09	211.44	◗	219.00	216.81	NEW
Beech R/H	1550 × 800 × 720mm	39-61-60	183.44	◗	190.00	188.10	NEW
Beech L/H	1550 × 800 × 720mm	77-93-95	183.44	◗	190.00	188.10	NEW
Beech R/H	1750 × 800 × 720mm	66-76-45	211.44	◗	219.00	216.81	NEW
Beech L/H	1750 × 800 × 720mm	57-39-42	211.44	◗	219.00	216.81	NEW
3 DRAWER MOBILE PEDESTAL							
Cherry	440 × 570 × 580mm	81-42-04	101.37	◗	105.00	103.95	NEW
Light Oak	440 × 570 × 580mm	94-74-06	101.37	◗	105.00	103.95	NEW
Beech	440 × 570 × 580mm	40-78-27	101.37	◗	105.00	103.95	NEW

OTHER ITEMS

FOR FOOT RESTS SEE PAGE 505
FOR OFFICE EQUIPMENT SEE PAGES 509–561

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MOBILE/HEIGHT ADJUSTABLE WORKSTATIONS

MONARCH COMPUTER FURNITURE



Monarch Professional Low Level Workstation

FEATURES:
- Sliding keyboard and printer shelf.
- Castors for mobility.
- Optional extras to complement units.
- Height adjustable.
- W1205 × D820 × H720mm





Monarch Tower Workstation

FEATURES:
- Sliding keyboard shelf with room for mouse mat.
- Fixed printer shelf.
- Bottom shelf holds stationery and tower unit safe and secure.
- Available in grey, oak or mahogany.

Monarch Notebook Home-Station

FEATURES:
- Compact design, 750 × 550mm main work surface at 700mm high.
- Left hand version available by request.
- Cables held on desktop for quick connection.
- Recessed non-slip for laptop and matching recessed mouse mat. This provides a complete flat work surface.
- Built-in CD-ROM holder.
- Printer shelf for upto 460mm wide printer.
- Easy assembly tools supplied.



PLEASE NOTIFY ACTION OF ANY TRANSIT DAMAGE WITHIN 24 HOURS OF DELIVERY. PRICE INCLUDES DELIVERY (MAINLAND ENGLAND AND WALES ONLY). NO DELIVERY TO IRELAND FOR ACCO BUT WILL INCLUDE ADDITIONAL DELIVERY COST FOR MONARCH TO IRELAND.

UNBEATABLE PRICING

	DESCRIPTION	DIMENSIONS (mm) W	D	H	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	Professional Tower Workstation (Oak)	850	506	840	99-40-82	66.86	69.95	69.25	68.56
	Professional Tower Workstation (Grey)	850	506	840	99-40-99	66.86	69.95	69.25	68.56
	Professional Tower Workstation (Mahogany)	900	550	740	99-41-09	62.08	64.95	64.30	63.66
	Professional System Low Level Workstation (Grey)	1205	820	720	93-70-70	94.58	98.95	97.96	96.98
NEW	Notebook Home-Station	750	550	700	53-01-36	65.95	69.00	68.31	67.63

OTHER ITEMS
FOR FOOT RESTS SEE PAGE 505
FOR OFFICE EQUIPMENT SEE PAGES 461–509
FOR STATIONERY SEE PAGES 1018–1034

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRINTER STANDS

MONARCH COMPUTER FURNITURE



Monarch Budget Matrix Printer Stand
- Twin paper baskets included.
- Low cost general purpose stand.
- Suitable for bottom feed printers.
- Fully mobile.



Monarch Heavy Duty Printer Stand
- Heavy Duty Printer Stand
- Basket included
- Suitable for bottom feed printers
- Available in grey only



Monarch Easystack Printmaster Printer Stand
- Heavy duty universal stand.
- Paper feeds and collects at the front.
- Desk height for convenience.
- Locking castors for stability.



Monarch Double Decker Printer Stand
- Extremely strong construction.
- Fits two printers in the space of one.
- Suitable for dot matrix and laser printers.



Monarch Extra Heavy Duty Printer Stand
- Very strong design
- Will hold laser printers at 50kg plus
- Adjustable feet
- Delivered flat packed
- W550 × D550 × H720mm



Monarch Medium Size Heavy Duty Printer Stand
- Adjustable Top
- Heavy Duty Mobile Printer Stand
- Basket optional
- Suitable for rear & bottom feed printers
- Fully Mobile
- Available in Grey only
- W625 × D500 × H735mm

PRICES INCLUDE DELIVERY (MAINLAND ENGLAND AND WALES ONLY)

DESCRIPTION	DIMENSIONS H × W × D (mm)	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Monarch Low Level 80 Column Stand	354 × 532 × 370	97-31-68	38.18	39.95	39.55	39.15
Monarch Budget Matrix Printer Stand	670 × 632 × 666	97-31-51	52.33	54.75	54.20	53.66
Monarch Easystack Printmaster Printer Stand	720 × 700 × 470	97-31-75	57.30	59.95	59.35	58.76
Monarch Double Decker Printer Stand	1060 × 700 × 470	97-31-82	85.00	89.95	89.05	88.16
Monarch Medium Size Heavy Duty Printer Stand	735 × 625 × 500	69-23-77	95.85	➧	104.35	101.22
Monarch Extra Heavy Duty Printer Stand	720 × 550 × 550	69-23-91	76.50	79.95	79.15	78.36
Monarch Heavy Duty Printer Stand	720 × 800 × 770	93-62-39	76.42	79.95	79.15	78.36
Monarch Heavy Duty Printer Stand	1450 × 750 × 550	45-72-75	76.42	79.95	79.15	78.36

OTHER ITEMS

FOR CABLE BRIDGES, KITS & TIES SEE PAGES 615, 616
FOR SCREEN FILTERS SEE PAGES 519–525
FOR FOOT RESTS SEE PAGE 505

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRINTER SILENCERS

Monarch Acoustics manufacture **printer silencers** to fit a wide variety of models. Made from dense fibre board with grey acrylic lids and lined with 25mm acoustic foam, they give up to **90% noise reduction.**
All models are fitted with an anti-static strip on the acrylic lids, feature gas struts and allow back or bottom feed, with a plug provided for the slot when not in use.
To get the best fit, measure your printer along with any accessories and match them up to the internal dimensions listed below, remembering to leave a gap around your printer inside the acoustic hood.
All printer hoods apart from 93-52-85 are fitted with a fan.



UNBEATABLE PRICING





PLEASE NOTIFY ACTION OF ANY TRANSIT DAMAGE WITHIN 24 HOURS OF DELIVERY. PRICES INCLUDE DELIVERY (MAINLAND ENGLAND AND WALES ONLY). Delivery to Ireland includes an additional delivery charge.

PRINTER TYPE	INTERNAL DIMENSIONS (mm) W	D	H	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
80 column Epson LQ300 OKI 3320	505	417	238	93-52-85	105.58	▶	114.95	111.50
132 column Epson H70 OKI 321	670	417	238	93-52-61	150.73	▶	154.95	153.40
132 column OKI 591 521 Panasonic 3628	680	467	236	45-34-68	168.91	▶	174.95	173.20
132 column OKI 3410	665	475	370	93-52-54	168.91	▶	174.95	173.20
132 column Epson 2170 Grey	725	585	300	93-52-47	193.53	▶	198.95	196.96
132 column Genicom 3840, Tally 2045	725	585	390	22-51-98	193.53	▶	198.95	196.96
132 column/DFX8000	805	665	395	69-22-29	193.53	▶	198.95	196.96
MPH5020 Hood & Cabinet for DFX8000	—	—	—	90-44-74	340.00	▶	355.00	351.45
132 column OKI 395 with sheet feed	670	585	550	93-52-23	241.32	▶	249.95	247.45
Printer Stand	625	500	735	93-52-92	88.20	99.00	96.03	93.15
Basket	–	–	–	45-34-51	14.21	15.95	15.47	15.01

OTHER ITEMS
FOR PRINTER STANDS SEE PAGE 489
FOR CLEANING PRODUCTS SEE PAGES 534–540
FOR CONTINUOUS PAPER SEE PAGE 1018–1021

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

SYSTEM FURNITURE

MONARCH COMPUTER FURNITURE

Monarch's desks and accessories are ideal, stylish, yet very affordable products for equipping your office.





PLEASE NOTIFY ACTION OF ANY TRANSIT DAMAGE WITHIN 24 HOURS OF DELIVERY. PRICE INCLUDES DELIVERY (MAINLAND ENGLAND AND WALES ONLY).

Small Desks
- Cable management.
- Modesty panel.
- Height adjustable, or fixed height versions.

Standard Fixed Height Desking
- Cross bar under desk to prevent sagging.
- Cable management.
- Modesty panel.

Medium Desks
- Cable management.
- Modesty panel.
- Height adjustable, or fixed height versions.

Large Fixed Desks
- Cable management.
- Modesty panel.
- Height adjustable, or fixed height versions.

Printer Stand
- Paper catch tray included.
- Slot for bottom feed printers.
- Height adjustable.

90° Link Unit
- Supplied with fittings.
- Modesty panel.

Pedestal
- 3 Drawer non-locking.
- Holds A4 files.
- 2 locking castors.

DESCRIPTION	DIMENSIONS (mm) W	D	H	CAT NO LIGHT OAK	GREY	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Small Fixed Height Desk	800	770	740	69-21-02	69-21-19	61.43	68.95	66.88	64.88
Small Height Adjustable Desk	800	770	670-785	49-50-93	93-61-98	75.00	85.95	83.37	80.87
Standard Fixed Height Desk	1000	770	740	69-21-26	69-21-33	71.64	74.95	74.20	73.46
Medium Fixed Height Desk	1250	770	740	69-21-40	69-21-57	78.36	87.95	85.31	82.75
Medium Height Adjustable Desk	1250	770	670-785	49-51-03	93-62-08	94.15	◗	102.50	99.43
Large Fixed Height Desk	1550	770	740	69-21-64	69-21-71	89.80	93.95	93.01	92.08
Large Height Adjustable Desk	1550	770	670-785	49-51-41	93-62-15	99.15	◗	107.95	104.71
Heavy Duty Printer Stand, not shown	800	750	660-750-770	45-72-75	93-62-39	76.42	79.95	79.15	78.36
90° Link Unit	—	—	—	45-72-68	93-62-53	33.37	37.45	36.33	35.24
Pedestal (3 drawer non-locking)	—	—	—	45-72-51	93-62-22	101.95	◗	111.00	107.67

OTHER ITEMS

FOR FOOT RESTS SEE PAGE 505
FOR CABLE BRIDGES, KITS & TIES SEE PAGE 615, 616
FOR SCREEN FILTERS SEE PAGES 519–525

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

EURO DESKING

MONARCH COMPUTER FURNITURE

AFFORDABLE PRICING!



Shown with optional top shelf

Desking
Manufactured using 25mm 650 density, low reflecting, hard wearing particle board, the desks are trimmed with 2mm edging. The modesty panel and frame are grey and leg frames have a matching infill panel. Work surfaces are available in grey or light oak and are fitted with a cable port.

Pedestals
Available to fit under the desk or beside the desk with a work surface which will match the height and colour of the desk. The drawer fronts are available in grey or light oak and comprise of two storage drawers and an A4 filing drawer all of which are lockable.

Top Shelf
A practical way to provide extra space for your desk. The Top Shelf can be provided in two widths to suit the desk size and of course available in grey or light oak. Can be secured to the desk.

PLEASE NOTIFY ACTION OF ANY TRANSIT DAMAGE WITHIN 24 HOURS OF DELIVERY
PRICE INCLUDES DELIVERY
(MAINLAND ENGLAND AND WALES ONLY)

Example Layout



DESCRIPTION	PART NO	DIMENSIONS (mm) W	D	H	CAT NO LIGHT OAK	GREY	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Corner Desk Left-Hand	CT3031	1600	1200	725	22-51-25	52-97-17	151.97	➧	169.95	163.15
Corner Desk Left-Hand	CT3032	1800	1200	725	38-28-78	12-09-70	160.02	➧	178.95	171.79
Corner Desk – Right Hand	CT3022	1800	1200	725	97-60-00	97-59-08	172.77	➧	178.95	177.16
Corner Desk – Right Hand	CT3023	1600	1200	725	97-60-17	97-59-22	164.08	➧	169.95	168.25
Desk Height Pedestal	CT3024	435	600	725	97-60-24	97-59-39	135.17	➧	140.00	138.60
Under Desk Pedestal	CT3025	413	595	706	97-60-31	97-59-53	114.77	➧	124.95	121.20
Top Shelf	CT3026	1600	340	345	97-60-55	97-59-60	44.50	49.95	48.45	47.00
Top Shelf	CT3027	1800	340	345	97-60-48	97-59-77	44.50	49.95	48.45	47.00

OTHER ITEMS
FOR FOOT RESTS SEE PAGE 505
FOR WRIST RESTS SEE PAGE 506
FOR CABLE BRIDGES, KITS & TIES SEE PAGES 616, 617

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

OFFICE CHAIRS

TRUMP chairs

All chairs are designed with waterfall seat fronts to prevent any excess pressure on thighs. No tools are needed for assembly but a screwdriver will be required if the optional arms are to be fitted.

Ace
- Independent fully tiltable ultra large seat.
- Ultra large spring loaded permanent contact back which can lock for back support.
- Lumbar support.
- Gas lift.
- Optional arms

Queen
- Large deep contoured seat.
- Adjustable spring action fixed or floating back rest tilt.
- Deep ergonomic back rest.
- Gas lift.
- Optional arms

King
- Extra large deep contoured seat & back.
- Adjustable spring action fixed or floating back rest tilt.
- Deep ergonomic lumber support.
- Gas lift.
- Optional arms

Jack
- Large deep contoured seat.
- Back rest is fully adjustable in-out and up-down.
- Gas height adjuster.
- Optional arms

Draughtsmans Ring
- Height extension.
- Suitable for Queen, King and Jack chairs.

TRUMP chairs



ACE



QUEEN



KING



JACK

ARMS OPTIONS



TYPIST ARM	DELUXE ARM	ADJUSTABLE ARM
53-77-75	64-77-77	77-83-14



DESCRIPTION	CHARCOAL	LEAD GREY	CLARET	ROYAL BLUE	AQUA GREEN	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Ace (inc arms)	93-60-88	93-63-63	93-82-82	93-68-06	49-26-25	101.37	▶	105.00	103.95
Ace (exc arms)	93-72-14	93-72-21	46-60-84	93-72-45	49-26-32	81.24	85.00	84.15	83.31
King (exc. arms)	93-60-64	93-63-49	46-60-91	93-75-82	49-26-49	64.15	72.00	69.84	67.74
Queen (exc. arms)	93-60-95	93-62-77	46-61-01	93-68-13	49-31-81	53.46	60.00	58.20	56.45
Jack (exc. arms)	93-60-71	93-61-36	22-52-05	93-63-70	12-10-35	39.20	44.00	42.68	41.40
Arms all exc. Ace	95-09-23	95-09-23	95-09-23	95-09-23	95-09-23	19.56	21.95	21.29	20.65
Draughtsmans Ring for Queen, King & Jack Chairs	98-34-64	98-34-64	98-34-64	98-34-64	98-34-64	17.37	19.50	18.92	18.35

OTHER ITEMS

FOR OUR FULL RANGE OF FOOT RESTS SEE PAGE 505
FOR A RANGE OF WRIST RESTS SEE PAGE 506

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

OFFICE CHAIRS

TRUMP chairs

ARMS OPTIONS









Diamond Executive Chair
FEATURES:
- Syncro adjustable back and forward tilt seat.
- 3 dimensional ultra large seat and back.
- Waterfall front.
- Lumbar support and new flexi-back.
- CMHR high density foam.
- Stabilus gas lift.
- Supplied with arms.

ACTION RECOMMENDS



90-65-68
See page 505 for more details


Peat


Charcoal


Lead Grey


Royal Blue


Claret


Red


Aqua


Rosevale


Adriatic


Nightshade

PLEASE NOTIFY ACTION OF ANY TRANSIT DAMAGE WITHIN 24 HOURS OF DELIVERY.

DESCRIPTION	AQUA GREEN	CHARCOAL	ROYAL BLUE	PEAT	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Diamond Executive Chair (exc. arm)	49-26-56	95-06-55	95-06-62	95-07-96	115.00	◗	120.00	118.80

Introducing a range of **Executive Chairs:** the ultimate in luxury. All chairs are manufactured with fire resistant foam and have waterfall seat fronts to avoid pressure on thighs.

The Grand Slam
FEATURES:
- Ultimate leather cushioned luxury (main frame covered in simulated leather).
- Lumbar support.
- Locking tilt.
- SUSPA gas lift.
- Meets or exceeds full EC requirements.
- Waterfall front.
- Also available in fabric, in charcoal, peat, royal blue, claret, lead grey and aqua green.



98-34-02

The Admiral
FEATURES:
- Extra large chair.
- Camborne fabric.
- Deep lumbar support.
- Tilt, torsion and lock tilt.
- Gas lift.
- Meets or exceeds full EC requirements.
- Waterfall front.
- Available in 6 colours: charcoal; peat; royal blue; claret, lead grey and aqua green.



98-34-19

DESCRIPTION	CHARCOAL	PEAT	ROYAL BLUE	CLARET	BLACK	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Grand Slam Blk Leather	—	—	—	—	98-34-02	123.08	◗	134.00	129.98
Grand Slam Fabric	46-60-39	46-61-94	46-61-70	46-60-60	—	123.08	◗	134.00	129.98
Admiral	98-34-57	98-34-19	98-34-33	98-34-40	—	114.81	◗	125.00	121.25

OTHER ITEMS
FOR OUR FULL RANGE OF FOOT RESTS SEE PAGE 505
FOR A RANGE OF WRIST RESTS SEE PAGE 506

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CHROME SHELVING SYSTEM

RAPID RACKING

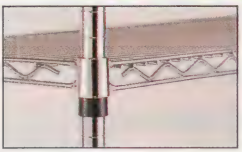


Four Shelf Unit
- High quality nickel chrome finish.
- Open wire construction for excellent air and light distribution.
- Adding castors converts any unit to a trolley.
- Simple fast assembly, instantly adjustable.
- No tools required.

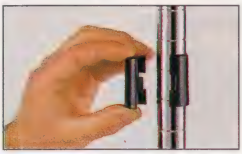
Chrome Trolley
Same as above but with castors
- Open wire shelves allow air circulation and reduce dust.
- High quality nickel chrome finish.
- Adjustable shelves.
- Complete with pull out keyboard drawer.

Corner Shelves
- Quarter round shelves.
- High quality nickel chrome finish.
- 18" (455mm) deep.
- 18" (455mm) wide.

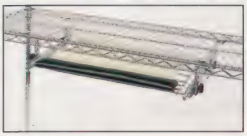




- Slide shelf over plastic sleeves to complete the level.



- Snap plastic shelf sleeve to desired ring on each post.





Swivel Castors
- 4" Medium duty.
- Safety buffer.
- Strong design.

Pull Out Keyboard Drawer
- Attaches neatly under chrome shelves.
- Cushioned wrist rest.
- For keyboards up to 533mm wide and 208mm deep.

PRICES INCLUDE FREE DELIVERY (MAINLAND ENGLAND & WALES ONLY)

For more information please call 0800 660022 and ask for the OPS team

DESCRIPTION	DIMENSIONS (mm) W	D	H	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
4 shelf unit – 350kg UDL per shelf	915	355	1600	47-54-15	128.54	◗	139.95	135.75
4 shelf unit – 350kg UDL per shelf	915	455	1600	47-54-22	136.86	◗	149.00	144.53
4 shelf unit – 350kg UDL per shelf	915	610	1600	47-54-39	160.74	◗	175.00	169.75
4 shelf unit – 200kg UDL per shelf	1220	355	1600	47-54-46	146.04	◗	159.00	154.23
4 shelf unit – 200kg UDL per shelf	1220	455	1600	47-54-53	160.74	◗	175.00	169.75
4 shelf unit – 200kg UDL per shelf	1220	610	1600	47-54-60	183.69	◗	199.99	193.99
4 shelf unit – 150kg UDL per shelf	1525	355	1600	47-54-77	155.23	◗	169.00	163.93
4 shelf unit – 150kg UDL per shelf	1525	455	1600	47-54-84	179.11	◗	195.00	189.15
4 shelf unit – 150kg UDL per shelf	1525	610	1600	47-55-01	219.52	◗	239.00	231.83
Keyboard Drawer	108	381	108	47-55-18	28.67	30.00	29.70	29.40
4 Medium duty 4" Swivel Castors with buffer	—	—	100	86-86-94	35.46	39.80	38.61	37.45
4 Medium duty 4" Swivel Castors with lock and buffer	—	—	100	66-76-08	39.02	43.80	42.49	41.21
Quarter round 18" corner shelves	455	455	150	39-61-07	14.12	16.45	15.79	15.16
Half round 18" corner shelves	455	455	150	77-93-47	14.98	17.45	16.75	16.08
Chrome trolley	915	610	1040	81-41-75	143.03	◗	159.95	153.55

EXTENSION UNITS AND EXTRA SHELVES AVAILABLE, TOGETHER WITH MANY ACCESSORIES – CALL FOR DETAILS

OTHER ITEMS

FOR FOOT RESTS SEE PAGE 505
FOR OFFICE EQUIPMENT SEE PAGES 461–509
FOR CABLE BRIDGES, KITS & TIES SEE PAGES 615, 616

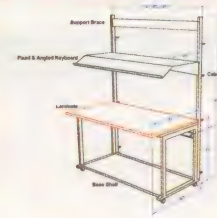
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

NETWORK RACKING SYSTEM — BDM SYSTEMS

FULMAR RANGE LAN STORAGE



- The Fulmar range offers one of the most cost-effective, specialist LAN racks available.
- BDM Systems has produced a strong, durable and flexible system to meet even the most stringent budget, without compromising quality.
- Available in 0.55mm, 1m and 1.5m wide units, with a host of optional components, including cable management systems, power options, keyboard shelves and storage shelves.
- Call to discuss your particular shelving requirements, if different to those shown below.



Configuration – A
1000mm or **1500mm** wide unit, with:–
✓Base frame + uprights
✓Laminate worksurface/worktop
✓Fixed angle keyboard shelf
✓Support brace at top
✓Base shelf for tower/UPS
✓Cable tray + clips
✓On lockable castors for mobility

- FREE site survey and Design Artwork
- FREE delivery and installation (UK Mainland)
- Prompt delivery of units from stock
- FREEPHONE 0800 783 5746 for no-obligation quote or to find out how BDM racking can help solve your space problems
- Modular, height adjustable components – have racking designed to suit your own mix of IT equipment
- Components manufactured in the UK, to ISO9002 approved quality systems
- Independently weight tested and certified
- Lifetime Guarantee
- UK's No.1 Manufacturer & Distributor of LAN racking

FULMAR



Configuration – B
1000mm or **1500mm** wide unit, with:–
✓Base frame + uprights
✓Laminate worksurface/worktop
✓Standard shelf above laminate
✓Manual storage shelf at top
✓Base shelf for tower/UPS
✓Cable tray + clips
✓On lockable castors for mobility

CALL NOW FOR FREE SITE SURVEY ON 0800 783 5746

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	FUL1000-A Config-A (1000mm wide)	12-11-77	737.62	➧	764.00	756.36
NEW	FUL1500-A Config-A (1500mm wide)	37-00-65	870.86	➧	902.00	892.98
NEW	FUL1000-B Config-B (1000mm wide)	53-78-52	764.65	➧	792.00	784.08
NEW	FUL1500-B Config-B (1500mm wide)	64-78-69	905.61	➧	938.00	928.62

OTHER ITEMS
FOR FOOT RESTS SEE PAGE 505
FOR OFFICE EQUIPMENT SEE PAGES 461–509
FOR CABLE BRIDGES KITS & TIES SEE PAGE 615, 616

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

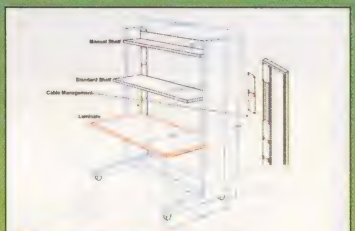
NETWORK RACKING SYSTEM — BDM SYSTEMS

MILLENNIUM RANGE LAN STORAGE

- BDM's highly flexible, flagship product.
- Ergonomically designed on heavy duty lockable castors, this fully integrated modular solution, features our Quick-Release cable management system and integral cable trays to all shelving.
- Available in 0.63m, 1.08m and 1.58m unit sizes, with many additional specialist components, including footrests, mobile server bases, rear doors and power options... please call to discuss your specific shelving requirements.

BDM SYSTEMS
THE LAN RACKERS

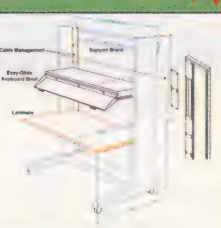




Configuration – A
1086mm or **1586mm** wide unit, with:–
- ✓Leg Sections + leg support brace
- ✓Laminate worksurface/worktop + cable tray
- ✓Standard shelf + cable tray
- ✓Manual storage shelf at top
- ✓Integrated quick release cable management
- ✓On heavy duty lockable castors for mobility

- FREE site survey and Design Artwork
- FREE delivery and installation (UK Mainland)
- Prompt delivery of units from stock
- FREEPHONE 0800 783 5746 for no-obligation quote or to find out how BDM racking can help solve your space problems
- Modular, height adjustable components – have racking designed to suit your own mix of IT equipment
- Components manufactured in the UK, to ISO9002 approved quality systems
- Independently weight tested and certified
- Lifetime Guarantee
- UK's No.1 Manufacturer & Distributor of LAN racking

MILLENNIUM



Configuration – B
1086mm or **1586mm** wide unit, with:–
- ✓Leg Sections + leg support brace
- ✓Laminate worksurface/worktop + cable tray
- ✓'Easy-Glide' keyboard shelf + cable tray
- ✓Support brace at top
- ✓Integrated quick-release cable management
- ✓On heavy duty lockable castors for mobility

CALL NOW FOR FREE SITE SURVEY ON 0800 783 5746

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
MIL 1086-A Config-A (1086mm wide)	90-53-04	1112.73	➧	➧	1141.00	NEW
MIL 1586-A Config-A (1586mm wide)	39-61-55	1303.87	➧	➧	1337.00	NEW
MIL 1086-B Config-B (1086mm wide)	77-93-89	1187.34	➧	➧	1217.50	NEW
MIL 1586-B Config-B (1586mm wide)	66-76-41	1357.51	➧	➧	1392.00	NEW

OTHER ITEMS

FOR FOOT RESTS SEE PAGE 505
FOR OFFICE EQUIPMENT SEE PAGES 461–509
FOR CABLE BRIDGES, KITS & TIES SEE PAGES 615, 616

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

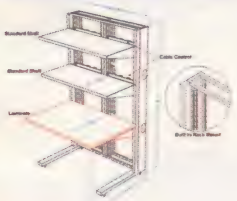
LAN SYSTEM FURNITURE — BDM SYSTEMS

BDM SYSTEMS MULTIFLEX LANRAC



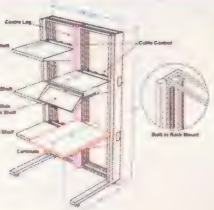
- Innovative and highly versatile racking system, which includes 19" rackmount fittings as standard, with optional centre leg to the 1.16m unit allowing space saving, split-level shelving function
- Available in 0.58m and 1.16m units, with many options including rackmountable cable management and power panels, mobile server bases, rack mount extenders for switches/hubs etc.
- Available with or without split level shelving function, please call to discuss the many options available

BDM SYSTEMS THE LAN RACKERS



Configuration – A
1160mm wide unit, with:–
✓Uprights + 19" rear collar braces (no centre leg/split level shelving capacity)
✓Laminate worksurface/worktop
✓2 × standard shelves
✓4 × cable management panels
✓On lockable castors for mobility

- FREE site survey and Design Artwork
- FREE delivery and installation (UK Mainland)
- Prompt delivery of units from stock
- FREEPHONE 0800 783 5746 for no-obligation quote or to find out how BDM racking can help solve your space problems
- Modular, height adjustable components – have racking designed to suit your own mix of IT equipment
- Components manufactured in the UK, to ISO9002 approved quality systems
- Independently weight tested and certified
- Lifetime Guarantee
- UK's No.1 Manufacturer & Distributor of LAN racking



Configuration – B
1160mm wide unit, with:–
✓Uprights + 19" rear collar braces
✓Centre leg for split level shelving capacity
✓580mm laminate worksurface/worktop
✓580mm keyboard shelf
✓3 × 580mm standard shelves
✓4 × cable management panels
✓On lockable castors for mobility

CALL NOW FOR FREE SITE SURVEY ON 0800 783 5746

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	MUL 11160-A Config-A (1160mm wide)	77-83-64	923.16	◗	956.18	946.62
NEW	MUL 11160-B Config-B (1160mm wide)	31-35-95	1244.99	◗	◗	1276.62

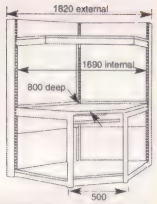
OTHER ITEMS
FOR MORE OFFICE FURNITURES SEE PAGES 461–509

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LAN SYSTEM FURNITURE

MONARCH COMPUTER FURNITURE

FOR A FAST & EASY FIX SOLUTION



LAN808Corner unit large


*New Lan Corner Units can be used to link up with main 1800mm or 1200mm wide Lan code LAN800 & LAN801.



LAN807 Corner unit small

A tailor-made solution to your LAN management needs.

This comprehensive LAN storage system offers total flexibility for today's computer requirements.
Each module comes complete with two adjustable shelves (450mm deep) each adjustable in 50mm increments, providing space for 21" monitors.
Full cable management is standard on the frames, the main work surface itself is constructed from 30mm timber with post form edging, tops are 800mm deep allowing space for mouse mats or extra keyboards.

Above is a storage facility for multiple servers.
Unit is supplied as standard with retractable keyboard shelves.
Colour: two-tone grey delivered from stock, flat packed.

- Optional extras: Castor base adds 6 castors for mobility, angled keyoard shelf, small and large corner units, power bar rail and bespoke power block.

Please contact our Technical Team for bespoke furniture requirement on 0800 884455. Site visit will check your exact requirements
(Please allow up to 3 days for quote to be processed)

PLEASE NOTIFY ACTION OF ANY TRANSIT DAMAGE WITHIN 24 HOURS OF DELIVERY. PRICE INCLUDES DELIVERY (MAINLAND UK AND WALES ONLY). Delivery to Ireland includes an additional delivery charge.

PART NO.	DESCRIPTION	DIMENSIONS (W × D × H)	CAT NO	Web Price	PRICE EACH (£) (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
LAN800	LAN Station	1250 × 800 × 720mm	99-37-08	530.04	◗	549.00	543.51
LAN801	LAN Station	1850 × 800 × 720mm	99-37-15	703.83	◗	729.00	721.71
LAN802	Castor Base	1250mm	99-37-22	85.07	89.00	88.11	87.23
LAN803	Castor Base	1850mm	99-37-39	101.37	◗	105.00	103.95
LAN806	Angle Keyboard Shelf	—	46-85-18	46.28	51.95	50.39	48.88
LAN807	Corner Unit Small	1400 × 590 × 720mm	46-85-25	405.50	◗	420.00	415.80
LAN808	Corner Unit Large	1820 × 800 × 720mm	46-85-32	555.15	◗	575.00	569.25
LAN809	Power Bar Rail	—	46-85-49	52.57	59.00	57.23	55.51
PART NO.	**DESCRIPTION**		**CAT NO**				
LAN 8011	4 way mount power distribution fused		48-12-55	49.54	55.60	53.93	52.31
LAN 8012	6 way mount power distribution fused		27-36-91	60.55	63.35	62.72	62.09

OTHER ITEMS
FOR FOOT RESTS SEE PAGE 505
FOR OFFICE EQUIPMENT SEE PAGES 461–509
FOR CABLE BRIDGES, KITS & TIES SEE PAGE 615, 616

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LAN SYSTEM FURNITURE

Remtech ALR

Practical Customer Proven System Having Exceptional Strength and Stability

- Easily assembled/adjusted.
- Optional UK installation service.
- Manufactured to ISO9002.
- Lifetime Structural Guarantee.

All surfaces – including desk surface – are height adjustable

– Frames include 1 vertical cable/socket tray at each support leg.
– Any number of additional vertical and/or horizontal cable/socket trays can be fitted at any position. 2 vertical trays can also support 19" solutions.

Huge Capacity Standard Sets: 2m or 2.4m wide + 2m high

Custom Combinations: Any number of shelf types and other options on 0.75m, 1.2m, 1.5m, 2m or 2.4m wide × 1m, 1.5m or 2m high frames (special sizes to order)

FREE design service/advice – Call 0800 783 1475



Shown with corner links and full width server trolley (19SSC).



Shown with server trolley's, 3 additional vertical cable/socket trays and various 19" solutions.

*Note: Angled keyboard tray removable to convert keyboard shelf to plain hardware shelf.

For more information check:–

www.action.com/remtech for more options/prices

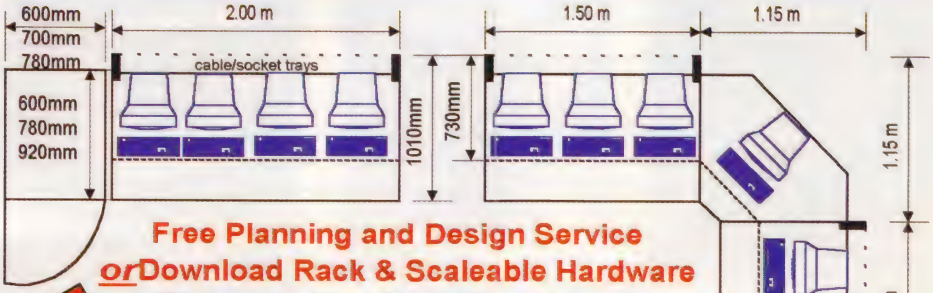
DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Set 2KH – 2m wide frame + 880mm desk + keyboard shelf + hardware shelf exc. cable tray	46-75-57	960.64	◗	995.00	985.05
Set 2KM – 2m wide frame + 880mm desk + keyboard shelf + manual shelf exc. cable tray	46-75-40	960.64	◗	995.00	985.05
20CT – 2m Horizontal cable/socket tray	46-79-59	41.10	43.00	42.57	42.14
19SSC – 1900 × 600mm server trolley	90-74-71	175.72	◗	182.00	180.18
NEW Set 2.4K – 2.4m wide frame + 880mm desk + keyboard shelf	53-01-18	866.99	◗	898.00	889.02
Set 2.4KH – As set 2.4K + hardware shelf	12-11-22	1070.80	◗	◗	1098.00
Set 2.4KM – As set 2.4K + manual shelf	53-00-51	1070.00	◗	◗	1098.00
24CT – 2.4m Horizontal cable/socket tray	77-83-40	46.84	49.00	48.51	48.02
11SSC – 1100 × 600mm server trolley (max 2/bay)	90-74-57	151.58	◗	157.00	155.43
20VCT – Additional 2m vertical cable/socket trays	39-61-35	32.50	34.00	36.66	33.32
6WS – 6-way socket/5m lead/plug/fixing kit	45-36-33	52.57	55.00	54.45	53.91
Delivery to England	90-75-36	95.00	95.00	95.00	95.00

OTHER ITEMS
FOR A FULL RANGE OF MAG MEDIA SEE PAGES 1099–1135
FOR MEDIA STORAGE SEE PAGES 543–549

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LAN SYSTEM FURNITURE

Remtech ALR

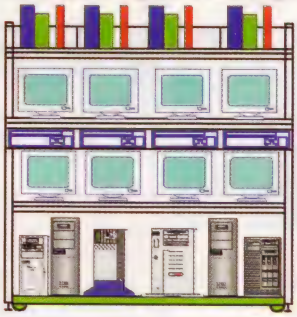


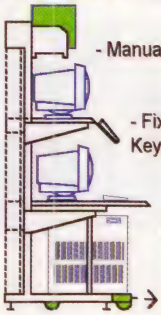
Free Planning and Design Service
or Download Rack & Scaleable Hardware Shapes to Plan Your Own Layout
www.action.com/remtech or Freephone 0800 783 1475 For Details

NEW



Example Layout: 2m high x 2m wide x 1.01m





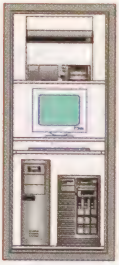
Or Any Other Special Size - Up To 2.5m Wide (Max. 450kg at desk level)

X?

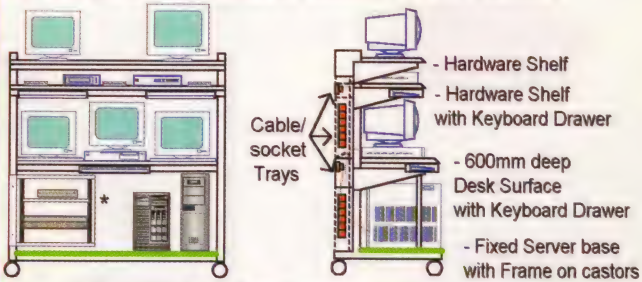
Server Cabinets

Optional vented doors.

19" Sun Compaq Dell or IBM Mounting Posts



Example Layout:
1.5m high x 1.5m wide x 730mm - all on castors



* 19" subframe with 1 small hardware shelf

OTHER ITEMS
FOR FOOT RESTS SEE PAGE 505
FOR CABLE MANAGEMENT PRODUCTS SEE PAGES 616, 617

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DESK CLEARANCE ACCESSORIES



SCE Laptop Station
- Use your laptop as a desktop.
- Stores your keyboard on an integral keyboard shelf when not in use.
- Easy access to laptop from front, rear and sides of the Laptop Station.



SCE CAD Monitor Stand
- Large monitor stand able to accept CAD units with a 14″ × 14″ footprint.
- Keyboard can be stored on integral shelf when not in use to save space.
- Holds up to 95kg in weight.



ClearSpace Vision Terminal Stand
- Stand takes both your terminal and keyboard off your desk.
- Top platform: W325 × D330 × H160mm.
- Robust, attractive clear acrylic material.
- Tested to 80kg loading.



Fellowes Super Monitor Stand
- Takes up to 14″-15″ monitor.
- Platform rotates 360° and tilts°.
- Keyboard can be stored under platform when not in use.
- W342 × D375 × H143mm.



Fellowes Standard Monitor Riser
- Adjustable to 3 different heights 2″-4″ (51-102cm).
- Non-skid foot rings ensure stability on any surface.
- Sturdy high-impact plastic supports up to 40lb (18.14kg) or 15″ monitors.
- W333 × D343 × H51-102mm.



Eldon EasyView Platform
- Frees up valuable workspace.
- Ideal for 14″ or 15″ monitors.
- Built in base tray stores keyboard.

UNBEATABLE PRICING

DESCRIPTION	MAX LOADING	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
SCE Laptop Station	80kg	90-97-61	33.41	34.95	34.60	34.25
SCE CAD Monitor Stand	95kg	45-94-48	33.81	37.95	36.81	35.71
SCE Variable Height CAD Monitor Stand 21″	100kg	45-94-62	73.55	76.95	76.18	75.42
SCE ClearSpace Vision Terminal Stand	80kg	93-45-54	28.63	29.95	29.65	29.35
Fellowes Super Monitor Stand	30kg	52-99-36	17.77	19.95	19.35	18.77
Fellowes Standard Monitor Riser	18.14kg	12-10-69	13.32	14.95	14.50	14.07
Eldon EasyView Platform	22.7kg	93-66-17	14.21	15.95	15.47	15.01

OTHER ITEMS
FOR INKJET PRINTERS SEE PAGES 372–399
FOR PRINTER STANDS SEE PAGE 489

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DESK CLEARANCE ACCESSORIES 3M EXPONENT CURTIS COMPUTER PRODUCTS



3M Monitor Stand
- Adjustable viewing height.
- Storage drawers to save desk space.
- Maximum load 36kg.

NOW £19.35 WAS £33.95



Exponent Monitor Organiser
- Creates desk space and elevates your monitor to a more comfortable viewing height.
- Suitable for 14"–17" monitors up to a maximum weight of 30kgs.
- Height adjustable to either 150mm or 185mm.
- Drawer stores up to 258 × 3.5" disks, 22 × CDs, 50 × Zip, 16 × Jaz, 45 × Ditto, 96 × LS120 or can be used for pens paper etc.
- Dimensions (W × D × H): 385 × 385 × 150 or 180mm.
- Drawer opens over keyboard.



Curtis Monitor Organiser
- Attractive, space saving monitor stand
- Drawer to store mouse, CDs, disks etc
- With swing out keyboard holder
- Aslo suitable for fax machines



Kensington Supershelf 21 Plus
- Sturdy platform supports any size monitor up to 21".
- Rolling storage trays hold media and other accessories.
- Height adjustable from 2 to 5", to give the best viewing level.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
3M Monitor Stand	45-35-61	18.70	20.99	20.36	19.75	
3M Monitor Stand (Additonal Drawer)	45-35-78	5.30	5.55	5.49	5.44	
Exponent Monitor Organiser	45-88-72	17.30	20.95	20.95	19.35	
Kensington Supershelf 21 Plus	57-39-37	15.45	18.00	17.28	16.59	NEW
Curtis Monitor Organiser	75-64-78	14.26	16.00	15.52	15.05	

OTHER ITEMS

FOR WRIST RESTS SEE PAGE 506
FOR TERMINAL ARMS SEE PAGES 508, 509
FOR FOOT RESTS SEE PAGE 505

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DESK CLEARANCE ACCESSORIES EXPONENT ELDON



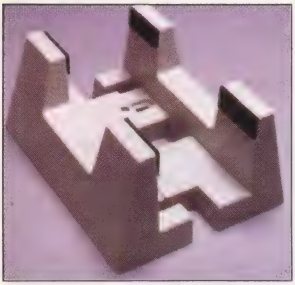
Exponent Underdesk Keyboard Drawer

- Helps prevent stress and fatigue.
- Opens and slides away easily and smoothly.
- Three comfortable height adjustments.
- Handy storage compartment beneath integrated wrist rest.
- Easily mounted under your desk.
- Optional mouse station.



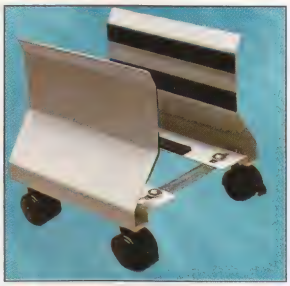
Exponent Desktop Keyboard Drawer

- Sturdy drawer can be placed either under your monitor or CPU.
- Great space saver.
- Conveniently stores your keyboard out of your way when not in use.
- Built-in wrist support.
- Accommodates any standard keyboard and support 30kg monitors.



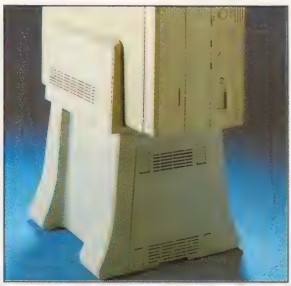
Exponent Lightweight CPU Stand

- Free up desktop workspace.
- Expandable from 81mm–183mm.
- Stabilises CPU on the floor.
- Rubber pads protect CPU case and help stop vibration.
- Light and elegant.



Exponent Mobile Steel CPU Holder

- Mobile CPU holder.
- Free up desktop work space.
- Expandable from 81mm–216mm.
- Protects and stabilises CPU.
- Rubber pads protect CPU case and prevent vibration.



Eldon Superbase Vertical CPU Stand

- Clamps accommodate CPU's from 95-171mm wide.
- Felt pads on clamps protect CPU's finish.
- Pedestal compartment has front and rear access panels with slots and snap-off tabs for ventilation and cable routing.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Exponent Underdesk Keyboard Drawer	90-97-92	11.99	14.95	14.50	14.07
Exponent Mouse Station for underdesk keyboard drawer	90-98-02	4.41	4.95	4.80	4.66
Exponent Desktop Keyboard Drawer	68-61-32	22.05	24.75	24.01	23.29
Exponent Lightweight CPU Stand	90-89-44	6.00	9.85	9.46	9.08
Exponent Mobile Steel CPU Holder	90-92-66	14.21	15.95	15.47	15.01
Eldon Superbase Vertical CPU Stand	93-30-81	22.23	24.95	24.20	23.48

OTHER ITEMS
FOR SCREEN FILTERS SEE PAGES 518–525
FOR FOOT RESTS SEE PAGE 505

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DESK CLEARANCE ACCESSORIES

EXPONENT 3M ACCO ACCODATA



Exponent Dr Byte Foot Rest 22-52-07

- Ergonomically designed.
- Full tilt mechanism.



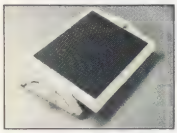
Exponent ErgoCurve Copyholders

- Unique curved design enhances focal distance and reduces glare.
- Adjustable line guide and clamp for multiple sets of paper.
- 3 versions, easel, weighted base and desk clamp.
- Board can be removed and used as an easel or clipboard for weighted base and desk clamp versions & both are height & tilt adjustable.
- Desk clamp version rotates 360°, extends 580mm and the clamp adjusts to 60mm.



Accodata Standard Tilt Foot Rest 38-28-72

- Tilt adjustable foot rest.
- Adjust height easily to meet your needs.



Accodata Foot Rest 93-67-03

- Foot plate area 350 × 450mm.
- Non-slip surface.
- Tilt adjustable.
- Adjusts with foot pressure.
- Height adjustable between 90–120mm.
- Locks in position with foot.



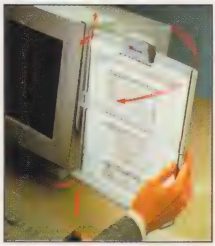
Accodata Easel Copyholder

- Height adjustable.
- Angle adjustable.
- Paper height adjustable to accommodate A4 and foolscap.
- Flip away cursor for easy loading of documents.
- Paper clip.
- 20mm paper support ledge.



3M Adjustable Foot Rest 90-65-68

- Extra large platform with special 3M non-slip surface.
- Easy height adjustments.
- Tilt adjusts with foot pressure.
- Sturdy hard wearing design.



3M Document Holder 98-28-05

- Fits securely to your monitor with unique 3M™ Dual-Lock attachment system.
- Height adjustable clip system.
- Mounted directly to your monitor.
- Adjustable back tilt.
- Adjustable 'swing-away' allows you to store it flat against your monitor, out of the way.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Accodata Standard Tilt Foot Rest	38-28-72	12.43	13.95	13.53	13.13
Accodata Foot Rests – Height & Tilt Adjustable	93-67-03	26.67	29.95	29.05	28.18
Accodata Easel Copyholder	93-64-11	6.68	6.99	6.92	6.85
Exponent Dr Byte Foot Rest	22-52-07	17.16	17.95	17.77	17.59
Exponent ErgoCurve Easel Copyholder	12-08-57	5.73	6.00	5.94	5.88
Exponent ErgoCurve Weighted Base Copyholder	22-49-70	10.50	10.99	10.88	10.77
Exponent ErgoCurve DeskClamp Copyholder	38-27-83	10.50	10.99	10.88	10.77
3M Adjustable Foot Rest	90-65-68	27.50	29.15	28.86	28.57
3M Document Holder	98-28-05	17.63	18.45	18.27	18.08

OTHER ITEMS

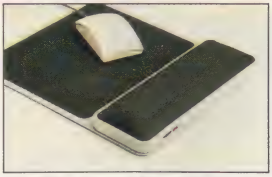
FOR CABLE BRIDGES, KITS AND TIES SEE PAGE 615, 616
FOR CLEANING PRODUCTS SEE PAGES 535–540

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

WRIST RESTS AND MOUSE PADS



3M GEL Keyboard Rest 97-29-94


3M GEL Mouse Rest 97-30-10


3M GEL Mouse & Keyboard Rest 97-30-27

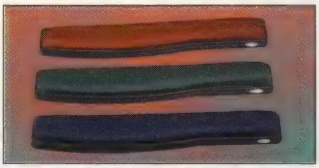


Exponent keyboard Gel Wrist Rest

Free Mouse/ Disk Holder with these Exponent Products



Exponent Mouse Gel Wrist Rest


Fellowes GEL Adjustable Wrist Rest 69-29-37.



Fellowes Easy Glide Mouse Mat 31-35-87/90-52-98



Genisys Super Gel Ergo Wrist Rest 37-00-55


Kensington Wrist Pillow 38-35-58

	DESCRIPTION	COLOUR	DIMENSIONS (mm) L	W	H	CAT NO	Web Price	PRICE EACH (£) (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	3M GEL Keyboard Rest	(Black)	490	280	35	97-29-94	19.11	19.99	19.79	19.59
	3M GEL Mouse Rest	(Black)	240	285	35	97-30-10	13.33	13.95	13.81	13.67
	3M GEL Mouse & Keyboard Rest	(Black)	680	280	35	97-30-27	28.66	29.99	29.69	29.39
	Exponent Keyboard Gel Wrist Rest	(Blue)	400	70	20	53-00-07	8.90	9.99	9.69	9.40
	Exponent Keyboard Gel Wrist Rest	(Black)	400	70	20	36-99-94	10.68	11.99	11.63	11.28
	Exponent Mouse Gel Wrist Rest	(Blue)	230	200	25	53-77-81	8.90	9.99	9.69	9.40
	Exponent Mouse Gel Wrist Rest	(Black)	230	200	25	64-77-82	8.90	9.99	9.69	9.40
	GEL Adjustable Wrist Rest	(Grey)	495	95	25	69-29-37	11.42	11.95	11.83	11.71
	GEL Adjustable Wrist Rest	Ruby/Black	495	95	25	45-95-65	11.42	11.95	11.83	11.71
	GEL Adjustable Wrist Rest	Sapphire/Black	495	95	25	45-95-58	11.42	11.95	11.83	11.71
	GEL Adjustable Wrist Rest	Emerald/Black	495	95	25	45-95-41	10.65	11.95	11.59	11.24
	Kensington Wrist Pillow	(Blue)	490	90	27	38-35-58	5.34	5.99	5.81	5.64
	Kensington Wrist Pillow	(Black)	490	90	27	41-46-36	5.34	5.99	5.81	5.64
NEW	Genisys Super Gel Ergo Wrist Rest (WR03)	(Blue)	465	63	22	37-00-55	7.97	8.95	8.68	8.42
NEW	Fellowes Easy Glide Mouse Mat	Blue on Grey	243	63	22	31-35-87	14.21	15.95	15.47	15.01
NEW	Fellowes Easy Glide Mouse Mat	Grey on Grey	243	63	22	90-52-98	14.21	15.95	15.47	15.01

OTHER ITEMS
FOR KEYBOARDS & MICE SEE PAGES 280–293
FOR OFFICE STATIONERY SEE PAGES 1017–1034

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

MOUSE MATS – HIGH QUALITY



Tweety at the Beach
06-60-99



PC Taz
06-60-82



Bugs & Tasmanian Devil
04-00-39



Water Hazard
06-61-09



Office Mickey Mouse Pad
06-18-22

NEW!



Mickey Artist Mouse Pad
06-95-00

NEW!



Classic Mickey Mouse Pad
06-17-51

NEW!



Classic Pooh Mouse Pad
06-49-62



Winnie the Pooh &
Tigger too Mouse Pad
06-12-66

NEW!



Tigger Family Tree
Mouse Pad
06-98-43

NEW!



Totally Tigger Mouse Pad
06-53-94

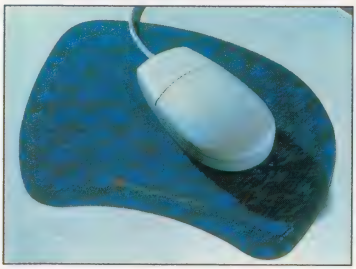
NEW!



Pooh & Friends Mouse Pad
06-76-74



Heavy Duty Blue 06-82-30
Heavy Duty Red 06-78-05
Heavy Duty Grey 06-78-05



3M Precise Mousing
Surface 04-07-47

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Quality Mouse Mats **(4 pack)**	See Above	17.81	19.99	19.39	18.81

OTHER ITEMS

FOR RANGE OF WRIST RESTS SEE PAGE 506
FOR FOOT RESTS SEE PAGE 505

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

TERMINAL ARMS

ACCODATA EXPONENT



Accodata Standard Monitor Arm

- Holds up to 30kg.
- Generous platform accommodates all popular monitors.
- Simple and easy platform adjustment with 360 degrees tilt and lock facility.
- Clamps securely and conveniently to your desk.
- Keyboard storage tray with profiled handle for ease of monitor movement.
- Small foot print and accommodates desk thickness of up 55mm.



Accodata Premium Tilt Adjustable Arm

An alternative solution to the problem of ever dimishing desk space. Accodatas new range of Monitor Arms provide additional work-surface area by lifting monitors safely above the desk. A host of additional features i.e. keyboard tidies, height, tilt and swivel adjustments etc, plus for the first time genuine cable management makes these products a valued addition to the office.

- Extra deep universal clamp.
- Single arm with two pivot points.
- Platform has unique pedal adjustment which has four non-slip, individually adjustable plates, fit any monitor 270-370mm.
- Rotates 360 degrees.
- Maximum reach 450mm.
- Maximum weight 25kg.



Exponent Terminal Arm

- Platform 300 × 300mm.
- Supports up to 22.5kg.
- 180mm high arm rotates 360°.
- Platform tilts 12.5°.

DESCRIPTION	MANUF. REF.	MAX LOADING	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Accodata Standard Monitor Arm	52483	30kg	12-09-28	31.18	35.00	33.95	32.93
Accodata Premium Tilt Adjustable Arm	51112	25kg	99-67-74	76.42	79.95	79.15	78.36
Exponent Terminal Arm	50801	22.7kg	90-81-19	24.90	27.95	27.11	26.30

OTHER ITEMS
FOR WRIST RESTS SEE PAGE 506
FOR OUR FULL RANGE OF CLEANING PRODUCTS SEE PAGES 535–540

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

TERMINAL/MONITOR ARMS ACCODATA EXPONENT

An alternative solution to the problem of ever diminishing desk space. **Accodatas** new range of **Monitor Arms** provide additional work-surface area by lifting monitors safely above the desk. A host of additional features i.e. keyboard tidies, height, tilt and swivel adjustments etc, plus for the first time genuine cable management makes these products a valued addition to the office.

Accodata Easy Lift Gas Monitor Arm
- Easily adjustable, flexible arm to place the monitor in the correct position to suit you.
- Extra deep universal clamp.
- Platform has unique pedal adjustment which has four non-slip, individually adjustable plates to fit any monitor 270-370mm.
- Rotates 360 degrees.
- Maximum reach 660mm.
- Maximum load 26kg.



Accodata Premium Height Adjustable Monitor Arm
- Extra deep universal clamp.
- Double arm flexibility which pivots in 3 places.
- Platform has unique pedal adjustment which has four non-slip, individually adjustable plates fit any monitor 270-370mm.
- Rotates 360 degrees.
- Maximum reach 560mm.
- Maximum weight 50kg.



Exponent Terminal Arm
- Supports monitors up to 37kg.
- Arm extends 360mm; from 400mm to 760mm.
- Built-in cable management.
- Easy fit clamp adjusts to 65mm.
- Wall or desk mountable.
- Wall mounting bolts not included.



UNBEATABLE PRICE

DESCRIPTION	MAX LOADING	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Accodata Easy Lift Gas Monitor Arm	26kg	22-52-36	163.16	➧	169.00	167.31
Accodata Premium Height Adjustable Monitor Arm	50kg	99-68-08	106.15	➧	109.95	108.85
Exponeent Terminal Arm	37kg	90-96-82	31.14	34.95	33.90	32.88

OTHER ITEMS
FOR WRIST RESTS SEE PAGE 506
FOR FOOT RESTS SEE PAGE 505
FOR CLEANING PRODUCTS SEE PAGES 535–540

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

GUIDE TO SECURITY

Sad but TRUE

- *Hardware theft has risen by 200% in the last 2 years.*
- *In the UK 30% of all reported thefts are computer related.*
- *Pound for pound computer memory has a greater street value than diamonds.*



Choosing Your Security Product

There are a wide variety of products available within the general sections outlined below.

Property Marking

Marking your property with your company name or postcode may discourage opportunistic theft and will certainly assist the Police with return of your goods if recovered.

Cable & Lock Devices

Cable and lock devices give a good level of security to equipment in public areas with easy access. Keying options are usually available such as Keyed Alike and Master Keyed.

Data Access Control

Drive locks are inserted into the drive or are attached to the face of the drive and are designed to ensure only the key holder has access and keep unauthorised users out. Keyed Alike or Master Keyed options are usually available.

Lock Down Systems

Lock down plates and rail lock systems offer a high level of security for all valuable items. Adhesive pads or bolts are used to secure the base plate to a work surface and the top plate or pads are attached to the equipment, usually with adhesive to avoid impact with the manufacturer's warranty, and the two halves are then locked together. Keyed Alike or Master Keyed options are usually available.

Equipment Alarms

These normally take the form of movement detectors and incorporate a 'trembler' sensor which will activate an audible alarm should illegal motion be detected. Available either as an internal unit, or as an external.

Custom Keying Options

All Byte Brothers products come as standard as Keyed Different. Special keying options available on most products depending on minimum order quantity. Refer to the symbols below for keying option types. Call for pricing and lead times.



KD – Keyed Different, all locks (up to 100) have different keys.

KA – Keyed Alike, all locks and keys are identical.

MK – Master Keyed, all locks with different keys and 1 master to open all locks.

For more information check:- www.action.com

OTHER ITEMS

SECURITY PRODUCTS AVAILABLE ON PAGES 511–517

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CABLE & LOCK DEVICES

ByteBrothers



Golf Ball Cable and Mouse Clamp
Fun golf ball style. Secures all your cabled devices.
- Secures at least 3 cables.
- Jaws are sized to secure the thinnest of cables to the largest data cables.



Super Bond Plate Kit
Advanced Security System uses super bond adhesive technology for super strength, **5 pack version available.**
Kit includes:
- 3 × round plates.
- 1 × 5ft steel cables.
- 1 × bottle of adhesive.
- 1 × padlock and keys.



Lok Slot Security Kit
Mounting to any vacant expansion slot location this kit provides the strongest security possible for your processor and monitor.
Kit includes:
- 5" heavy duty steel cable.
- 40mm case hardened padlock.
- Lock slot security loop.
- 1 Super bond mini plate.
- Super bond adhesive.



Screw On Kit
The perfect way to secure your computer, valuable boards and memory.
Kit includes:
- 2 × Screw on fasteners incluiding unique twist-proof design.
- 1 × 5ft heavy duty cable.
- 1 × Superbond plate.
- 1 × bottle of adhesive.
- 1 × 40mm padlock.

Keying options
KD KEYED DIFFERENT
KA KEYED ALIKE
MK MASTER KEYED
™

TO WORK OUT KEY OPTIONS, TURN TO PAGE 510

POLYMERIZING SUPER BOND TECHNOLOGY ™

Worldwide web theft registry
REG# 0000421153
www.bytebrothers.com

Free property tags and registry

Attach our property labels for extra security. Unique ID numbers printed on tamper resistant security labels identify your computers on our worldwide registry.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Byte Brothers Golf Ball Cable/Mouse Clamp	22-51-18	6.19	6.95	6.74	6.54
Byte Brothers Super Bond Plate Kit	96-87-33	19.70	22.95	22.03	21.15
Byte Brothers Super Bond Plate Kit **(5 pack)**	06-21-27	79.29	89.00	86.33	83.74
Byte Brothers Lok Slot Security Kit	98-38-04	15.97	19.95	19.50	19.00
Byte Brothers Screw-on Kit	97-09-41	16.90	22.95	22.50	22.00

OTHER ITEMS
FOR MORE SECURITY PRODUCTS SEE PAGES 512–517

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LAPTOP SECURITY

KENSINGTON



Lock it or lose it!

LIFETIME WARRANTY

Did you know that:
Every year billions of pounds worth of valuable computers are stolen. Hardware can be easily replaced but the valuable data stored on it is often irreplaceable! Statistics show that computer theft is on the increase. Kensington has the solution to the growing problem of computer theft. The MicroSaver range of security products offer physical deterrents for both laptop and desktop computer equipment. All Kensington security products come with a Lifetime Warranty.



Notebook MicroSaver
- The definitive notebook security device.
- Patented T-bar mechanism fits into a slot built in to 95% of laptops.
- Very easy to install – loop the 1.8 metre cable around a fixed object and lock your laptop down – that's it!
- Lightweight and easily portable.
- Approved by all the major laptop manufacturers.





SonicLock
- Electronic security device.
- Motion detecting alarm sounds at 100DB.
- Easy to operate.
- Can be attached to a carrying case for use whilst travelling or to a laptop using the patented notebook adaptor.

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	Kensington Microsaver	93-83-23	28.99	29.95	29.65	29.35
	Kensington Microsaver **(3 pack)**	04-02-97	85.00	88.95	88.06	87.18
	Kensington Microsaver **(25 pack)**	90-71-89	724.65	➧	788.95	765.28
NEW	SonicLock Motion Detect Alarm	94-74-03	17.77	19.95	19.35	18.77
NEW	SonicLock Motion Detect Alarm **(3 pack)**	06-12-68	48.11	54.00	52.38	50.81
NEW	SonicLock Motion Detect Alarm **(10 pack)**	06-08-58	151.55	➧	165.00	160.05

OTHER ITEMS

FOR MORE SECURITY PRODUCTS SEE PAGES 511–517

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DESKTOP SECURITY

KENSINGTON



Memory Lock
- Prevents the removal of the PC casing to protect the processor and memory from theft.
- Patented design and all metal construction **77-83-26.**



Desktop MicroSaver
- Easy to install physical and visual deterrent.
- Anchor plates, secured with super strength glue (will withstand 750lbs of full) are daisy-chained together, 1.8m 9mm plastic coated steel cable.
- Will secure up to three pieces of equipment **68-58-72.**



Floppy Lock
- Prevents unauthorised drive access to prevent downloading files and the introduction of viruses. (Not designed to work with Apple and SuperDisk drives) **45-96-06.**



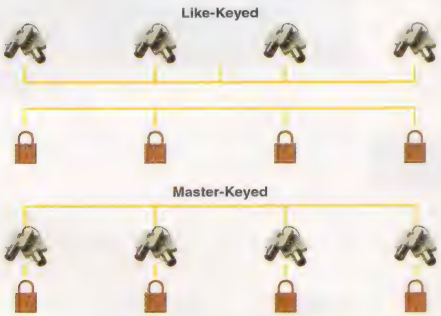
MemoryLock and Cable
- Complete security solution for hardware and software.
- This kit combines the advantages of the MemoryLock and the Desktop MicroSaver to secure up to three pieces of equipment **45-96-20.**

For further information go to www.kensington.com

LIFETIME WARRANTY



Key Options:
All Kensington security products are supplied with two keys as standard. Each key has it's own number which can be registered on-line in-case replacement keys are required. These products are available as customer key options to suit your requirements: Standard products come with different key combinations.



Or
Like-Keyed – All the locks and keys have the same combination so every key will open every lock. With Like-Keyed-All the locks and keys have a unique combination but a masterkey will opens every lock.

Or Master-Keyed-All the locks and keys have a unique combination but a master key will open all the locks. Each employee has their own individual key, if key are lost the IT manager has a masterkey that will open every lock.
Call for pricing and lead times.

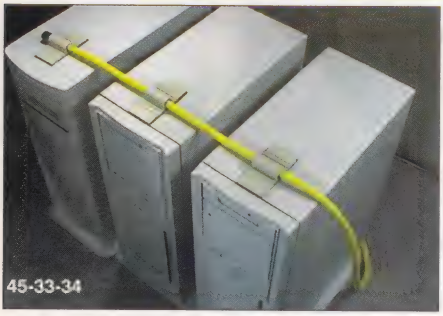
DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Kensington Memory with Cable	45-96-20	22.23	24.95	24.20	23.48
Kensington Desktop Microsaver	68-58-72	18.00	25.99	25.21	24.45
Kensington Desktop Microsaver **(3 pack)**	06-17-27	48.96	54.95	53.30	51.70
Kensington Floppy Lock	45-96-06	12.46	13.99	13.57	13.16
Kensington Floppy Lock **(4 pack)**	06-50-90	40.05	44.95	43.60	42.29
Kensington Memory Lock	77-83-26	10.65	11.95	11.59	11.24

OTHER ITEMS
FOR MORE SECURITY PRODUCTS SEE PAGES 511–517

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

SECURITY DEVICES

ByteBrothers

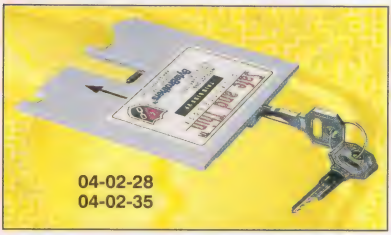


Byte Brothers Armoured Security Kit
The perfect security kit – the flexibility of a cable with the strength of hardened steel.
The metal jacketed armoured cable is effective against bolt cutters and hacksaws whilst still allowing the user to position the computer in the most comfortable position. The Super Bond Plates are the strongest adhesive plates made and virtually pry proof.
The kit includes: 1.5m long, 13mm thick Armoured Security Cable (hacksaw and cutter resistant); 3 large Super Bond plates; Super Bond adhesive, and a case hardened padlock.









Byte Brothers 3½" Diskette Lock (Safe and Thin)
A diskette lock that can fit virtually all of your company's diskette drives. Shaped remarkably like a diskette both in length and thickness, this lock fits easily and safely into a 3½" diskette. Not affected by the design of your computer's case or drive faceplate. **Available in 5 or 10 packs.**



Byte Brothers CD-ROM/ Diskette Lock
A universal lock that works equally well with CD-ROMs and diskette drives. Protects the media while stilll in use. Contains lock, super bond adhesive and 2 keys. **Available in 5 or 10 packs.**

Worldwide web theft registry
REG# 0000421153
www.bytebrothers.com

Free property tags and registry

Attach our property labels for extra security. Unique ID numbers printed on tamper resistant security labels identify your computers on our worldwide registry.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
ByteBrothers Armoured Security Kit	45-33-34	44.50	49.95	48.45	47.00
ByteBrothers Safe and Thin Diskette Lock **(5 Pack)**	04-02-28	48.09	69.75	68.75	67.75
ByteBrothers Safe and Thin Diskette Lock **(10 Pack)**	04-02-35	94.24	♦	128.00	127.00
ByteBrothers CD-ROM & Diskette Lock **(5 Pack)**	04-02-73	62.32	69.95	67.85	65.82
ByteBrothers CD-ROM & Diskette Lock **(10 Pack)**	04-02-80	105.74	♦	118.95	117.95

OTHER ITEMS
FOR MORE SECURITY PRODUCTS SEE PAGES 511–517

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

GUIDE TO FIRE SAFES

How safe is your data?

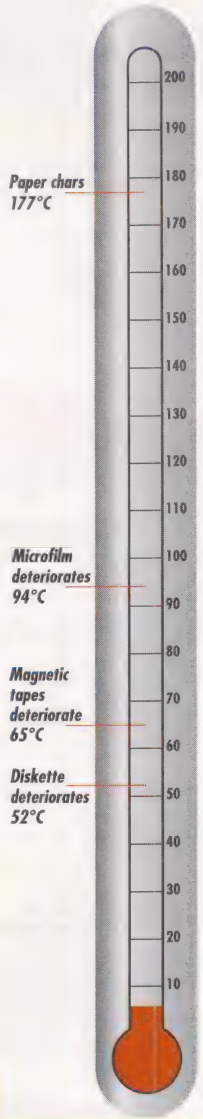
The use of computer data to process and classify vital information from all areas of business has led to an increase in the use of magnetic media such as diskettes, data cartridges and optical disks to store this valuable information. This media is very sensitive to heat and moisture – for example a diskette exposed to a temperature of 55°C for a few minutes may become totally unreadable.

How to know you are buying the best firesafe

The only way to establish the quality of the fire protection offered by a data cabinet is in the terms of the independent tests passed and standards achieved.
There is no officially recognised British test standard. The German VDMA and Swedish SP standards are internationally recognised and give a true testament to the quality of all fire safes.

For more information check:–

www.action.com



What does the VDMA test involve?

The VDMA test certificate is awarded to equipment which, under strict rules and standards, have passed tests simulating the conditions likely to be met by a cabinet in a real fire. The duration of the tests can be either 1 hour (S60) DIS or 2 hours (S120) DIS and the performance established by the temperature rise during the test.

What does the Swedish SP90Dis Standard Involve?

The Swedish SP90Dis Certificate is awarded to equipment which under strict rules and standards has been heated to 1015°C over a 90 minute period. The heating process follows the ISO 834 Temperature curve. During this period the internal temperature of the unit must not rise above 52°C.

Test Simulations

1. A sharp rise in the ambient temperature.
2. Simulated collapse of the building (drop test).
3. Thermal shock caused by fire-fighting forces (water cooling).
4. Endurance tests, by leaving the cabinet in the oven, simulating the natural cooling process. If the temperature inside the cabinet rises by less than 30°C it is awarded the highest certificate notated DIS for Diskette.

OTHER ITEMS
FOR MAGNETIC MEDIA SEE PAGES 1035–1171
FOR MAGNETIC MEDIA STORAGE SEE PAGES 527–532

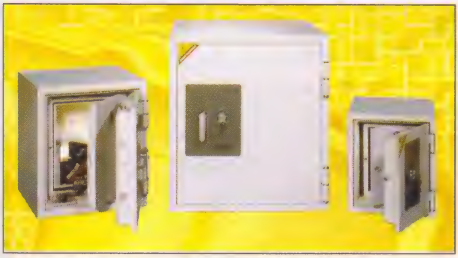
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FIRE SAFES — PHOENIX



Phoenix Data Combi 2500 Series Safes

- Data media: 90 minutes fire protection.
- Paper, records and documents: 90 minutes fire protection. (SP90)
- High security electronic lock with up to 8 digit combination.
- Automatic door locking on all models.
- Cash: £2,500 insurance cover.*
- Valuables and jewellery: £25,000 insurance cover.*



Phoenix Data Safe 2000 Series fire safes are finished in textured white. Protects magnetic media for 1½ hours against fire (SP9OD).

- Protects magnetic media for 90 minutes against fire, dust, humidity, magnetic and electric fields.
- High security keylock.
- Automatic door locking on models 2002/2003.

All Phoenix products have a unique 3 part warranty (1) 2 year unconditional warranty. (2) Free replacement of any product damaged in a fire. (3) 24hr on-site service back-up by master locksmiths (UK mainland only). Prices include delivery to ground level. UK mainland only. for quotes on other Delivery costs, please call 0800 333 333.

Model	2501 Data Combi	2502 Data Combi	2503 Data Combi	Datacare 2001	Datacare 2002	Datacare 2003
Internal dimensions (H×W×D)	510×380×330mm	675×380×330mm	880×445×340mm	243×152×187mm	335×235×220mm	490×390×400mm
External dimensions (H×W×D)	700×500×500mm	880×520×520mm	1100×600×537mm	430×350×420mm	590×450×460mm	795×650×700mm
Weight	121kg	157kg	246kg	57kg	96kg	265kg
Standard	90 minutes Data Protection to Nord Test NT-017			A90		
Fittings	N/A				Optional	1 Shelf
Maximum Capacities						
3½" Disks	236		326	274	600	2960
5¼" Disks	110		299	192	370	3003
3M 6250 Data	12		30		—	
3M 8mm Tape	39		64	36	120	432
3M 4mm Tape	69		130	96	225	990
DC 600 Data Cartridges	—			14	72	195
DC 2000 Data Cartridges	49		94	48	128	624
3480 Data Cartridges	15		30	14	42	201

*Insurance cover will vary due to location & circumstances. Please check with underwriter.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Phoenix Data Combi 2501	11-22-73	506.87	▶	525.00	519.75
Phoenix Data Combi 2502	11-22-80	573.48	▶	593.99	588.05
Phoenix Data Combi 2503	11-22-97	839.00	▶	869.00	860.31
Phoenix Data Safe 2001	11-11-88	199.99	▶	218.00	215.82
Phoenix Data Safe 2002	11-11-95	405.50	▶	420.00	415.80
Phoenix Data Safe 2003	11-12-05	815.82	▶	845.00	836.55

OTHER ITEMS

FOR MAGNETIC MEDIA SEE PAGES 1035–1071
FOR MAGNETIC MEDIA STORAGE SEE PAGES 527–532
FOR MORE FIRE SAFES SEE PAGE 517

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▸▸Save £££'s!
▸▸Check live stock
▸▸Track order status

FIRE SAFES

Chubb SENTRY

FREE Holiday at a selection of 2 & 3 star hotels in the UK or Channel Islands for you & a friend with every purchase



Where are you storing your Backups? Are they safe from fire and theft? Protect your valuable company information!



4000 Series Fire Files
Have you got valuable documents that should be protected from possible fire damage? Chubb provides the solution with their 4000 Series Fire Files document protection cabinets. All are manufactured to withstand fires upto 927° for 1 hour.

Media Protector©
It will protect your priceless data files from as hot as 1,000°C for at least 1 hour. Stores all magnetic media products.

Helix Sentry Fire Safe™ Storage Chest (1160) for the ultimate in fire resistance.
The ideal organiser for paper, documents and valuables with the additional feature of protection against fire damage. Holds A4 paper without folding and will protect items against temperatures up to 843°C for ½hr. Key lock for privacy and security. Features 3 year warranty and automatic product replacement in event of fire damage.
Interior dimensions: W330 × D219 × H97mm.
External dimensions: W387 × 308 × 159mm.

PRICE INCLUDES DELIVERY TO GROUND FLOOR LEVEL OR UPPER FLOOR VIA LIFT TO MAINLAND UK

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Chubb Media Protector	98-55-27	293.92	▶	320.00	310.40
Chubb 4000 Series Fire Safe (**2 drawer**)	98-54-86	759.00	▶	775.00	765.00
Chubb 4000 Series Fire Safe (**3 drawer**)	98-54-93	807.40	▶	830.00	821.70
Chubb 4000 Series Fire Safe (**4 drawer**)	98-55-03	958.18	▶	985.00	975.15
Helix Sentry 1160 Security Chest	98-41-02	59.00	72.34	70.17	68.06

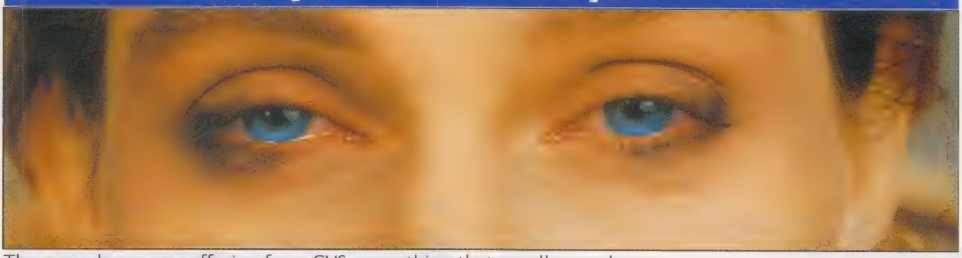
OTHER ITEMS
FOR MAGNETIC MEDIA SEE PAGES 1035–1071
FOR FIRE SAFES SEE PAGES 516, 517
FOR MEDIA STORAGE SEE PAGES 527–533

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

GUIDE TO SCREEN FILTERS

Computer Vision Syndrome



The eyes above are suffering from CVS, something that we all can relate to.
These vision-related symptoms include:

Headaches **Tired, red eyes** **Increased sensitivity to light**
Temporary nearsightedness **Neck and back ache** **Blurred vision**

These CVS problems can be eliminated by following these simple steps:

Have your eyes tested **Position your Monitor correctly** **Install a quality Screen Filter**
Take short breaks **Use correct Lighting**

Screen Filter Key Features:

Anti-Static Option

This will eliminate the problem of dust particles impacting the operators faces and eyes, leading to dry skin and sore Eyes. A problem that particularly effects those people who use contact lenses. Most modern monitors have addressed this problem.

Frame Styles:

Contour or wrap around frames eliminate side light and tend to look better on monitors.
Flat frames are less expensive and some operators think easier to remove to clean the screen.

What are the advantages of using a quality Screen Filter?

The use of a quality Screen Filter will improve the operator's comfort by:

- **Absorbing background ambient light, reducing 'wash out' of the screen image.**
- **Reducing flicker – a major cause of operator discomfort.**
- **Sharpening text and graphics by cutting out the fuzzy fringes of images, making it far easier to read.**

Screen Filters are a cost saving product

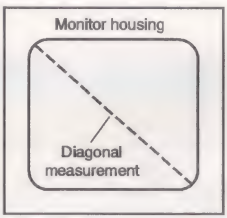
Quality screen filters will enable the operator to read what is on the screen far easier. This will result in them working better; making less mistakes, working more efficiently and hence compared to the initial outlay saving companies money.

Today's new monitors are far superior to the models of many years ago. However even the latest TCO 99 test protocol does not include quantifiable standards for screen reflections and glare reduction.

Many Mini Monitor manufacturers either etch the screen or provide only a basic anti-reflection coating. The result is that the visual image on the screen can still be markedly improved by the addition of a quality anti-glare screen filter. The operator will therefore be relieved of the problems associated with Computer Vision Syndrome (CVS).

CVS is a major problem that can seriously affect employee's health and impact your organisations productivity and is a key factor in Repetitive Strain Injury (RSI) issues.

How to measure your computer monitor for a screen filter.
Use the diagonal measurement to determine the correct size filter.



For more information check:–

www.action.com

OTHER ITEMS

FOR SCREEN FILTERS SEE PAGES 519–525

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PLEASE MEASURE YOUR SCREEN BEFORE PLACING YOUR ORDER

SCREEN FILTERS

OCLI

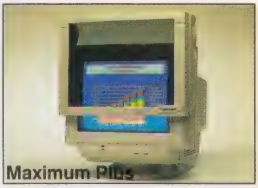
Look Sharp. . . See Sharp

With GlareGuard® . . . the Ultimate Viewing System™

The **OCLI GlareGuard** range of screen filters combats Computer Vision Syndrome (CVS), relieving eyestrain, stress and making work easier. OCLI are the world's leading optical thin film coating company. The advanced coating technology OCLI uses on NASA manned spacecraft windows and the International Space Station are utilised in the GlareGuard range. The same high standards of production NASA demanded being used throughout the GlareGuard manufacturing process.

GlareGuard Outstanding Features:

- Maximum Plus....Double Side Coated Glass for best anti-reflective properties of any filter; reduces 99.5% of glare – try the 'Ghost' test.
- Maximum Plus....Blocks up to 99.9% of EHF/VLF E-Field emissions.
- Maximum Plus....Tempered Safety Glass for increased safety.
- Monitor contrast improved with all models, reducing CVS problems.
- Anti-Static option avoids skin irritation, sore eyes and dust build up.
- Contour-wrap around frame or Easy-Fit hang on bracket.



Top specification screen filter.



Budget price model using OCLI's high quality single layer coating.



Translucent Frame complements the iMac. Medium contrast tint sharpens clarity and improves contrast.



Medium priced model reducing glare and EMF/ VLF emissions by 98.5%.



Privacy feature blocking views from either side.

GlareGuard by OCLI

DESCRIPTION	FRAME	SCREEN DIAGONAL	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
OCLI Maximum Plus	CONT	14-15"	98-31-03	39.87	44.75	43.41	42.11
OCLI Maximum Plus	CONT	17"	98-31-27	57.87	64.95	63.00	61.11
OCLI Maximum Plus	CONT	19-21"	98-31-34	70.68	73.95	73.21	72.48
OCLI Glare Defender	FLAT	15"	31-34-82	11.54	12.95	12.56	12.18
OCLI Glare Defender	FLAT	17"	90-52-11	17.81	19.99	19.39	18.81
OCLI Glare Defender Anti-Static	FLAT	15"	39-60-79	15.14	16.99	16.48	15.99
OCLI Glare Defender Anti-Static	FLAT	17"	77-93-25	22.23	24.95	24.20	23.48
OCLI iGuard	FLAT	15"	52-98-18	20.48	22.99	22.30	21.63
OCLI Optima 1800 Privacy	CONT	14–16"	12-10-14	58.79	65.99	64.01	62.09
OCLI Optima 1800 Privacy	CONT	17"	53-77-54	71.27	79.99	77.59	75.26
OCLI Standard 500	FLAT	14-15"	98-31-41	23.12	25.95	25.17	24.42
OCLI Standard 500	FLAT	16-18"	98-31-58	31.14	34.95	33.90	32.88
OCLI Standard 500	FLAT	19-21"	98-31-65	49.20	54.95	53.95	51.95
Falcon Anti-Static Screen Wipes **(3 tubs 70)**	–	—	04-04-62	6.10	6.85	6.64	6.45

OTHER ITEMS

FOR CLEANING PRODUCTS SEE PAGES 535–540
FOR OUR RANGE OF WRIST RESTS SEE PAGE 506
FOR MORE SCREEN FILTERS SEE PAGES 520–525

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PLEASE MEASURE YOUR SCREEN BEFORE PLACING YOUR ORDER

SCREEN FILTERS

ACCODATA KENSINGTON



Accodata Economy Flat Frame
Accodata Economy Flat Frame Screen Filters gives 95% glare and 98% radiation reduction to help minimise eyestrain and dust build up. Accodata's optical coatings give your eyes a break reducing on screen glare by 95% which heightens contrast and sharpens image resolution. Conductive coating helps drain off static electricity for reduced dust and dirt build up. Universal hangers make installation and adjustment quick and easy.

FEATURES:
- Glass is coated on one side to cut glare and reduce eye strain
- Easy to mount brackets position the filter securely on the monitor
- Conductive coatings work with the grounding wire to drain away static electricity
- Anti radiation coating eliminates 98% of ELF/VLF radiation.



Kensington Slim Screen
Unique, patented thin film technology filter, which has the same protective properties as glass. Reduces glare by up to 99%, eliminates up to 99.9% of radiation and is also anti-static. The frame is flexible and once fitted looks like part of the monitor.

FEATURES:
- Contour-slim profile for a tight fit that blends in with your monitor
- Dust-proof – Seals out and repels dust thanks to it's anti-static drain
- Provides 99% Anti-Radiation and 99% Anti-Glare protection
- Light with unique durability (scratch resistant surfacing)
- Uses Velcro to fit it on the screen (allows easy removal)

DESCRIPTION	SCREEN DIAGONAL	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Accodata Economy Flat Frame Anti Radiation	19-21"	74-24-40	37.42	42.00	40.74	39.52
Accodata Economy Flat Frame Anti-Glare	12-15"	45-98-11	10.69	12.00	11.64	11.29
Accodata Economy Flat Frame Anti-Glare	16-19"	94-73-92	17.82	20.00	19.40	18.82
Accodata Economy Flat Frame Anti Radiation	12-15"	40-78-14	19.60	22.00	21.34	20.70
Accodata Economy Flat Frame Anti Radiation	16-19"	75-95-79	26.73	30.00	29.10	28.23
Kensington Slim Screen Anti Radiation	14-15"	68-58-96	22.23	24.95	24.20	23.48
Kensington Slim Screen Anti Radiation	16-17"	68-59-06	33.44	34.99	34.64	34.29
Kensington Slim Screen Anti Radiation	19-21"	81-41-84	42.32	47.50	46.08	44.69

OTHER ITEMS

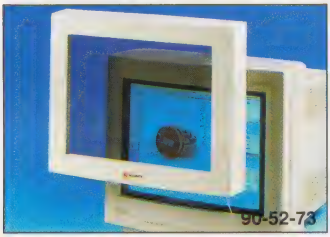
FOR CLEANING PRODUCTS SEE PAGES 535–540
FOR OUR RANGE OF WRIST RESTS SEE PAGE 506
FOR MORE SCREEN FILTERS SEE PAGES 520–525

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PLEASE MEASURE YOUR SCREEN BEFORE PLACING YOUR ORDER

SCREEN FILTERS

KENSINGTON



Glaremaster & Glaremaster Contour
Glaremaster Filter, superior 3-level protection, Anti Glare, Anti Static, Anti Radiation. Accodata's Glaremaster Anti Radiation is ideal for graphics, presentations, and other applications. Special coatings help drain away static electicity and reduce dust and dirt built-up around your monitor.

FEATURES:
- Optical coatings improve readability and contrast while eliminating 99% of reflections
- Conductive coatings
- Anti radiation coating eliminates 99.9% of ELF/VLF radiation
- Optical coatings improve readability and contrast
- Meets AOA and TUV specifications for computer monitor glare reduction



Glaremaster Security
Glaremaster Security Filters limits viewing range to a narrow 15 degrees so you must be directly in front of the screen to ready it clearly while onlookers see a cloudy, blurred picture.

FEATURES:
- Keeps sensitive information confidential
- Optical coatings improve readability and contrast while eliminating 99% of reflections
- Anti-static, Anti radiation coating eliminates 99.9% of ELF/VLF radiation
- Easy to mount brakcets position the filter securely on the monitor

Glaremaster Economy
Glaremaster Economy gives 99% Glare reduction to help minimise eyestrain and reflectance. Accodata'a optical coatings give your eyes a break reducing on screen glare by 99% which heightens contrast and sharpens image resolution.

FEATURES:
- Optical coatings improve readability and contrast while eliminating glare by 99%
- Easy to mount brackets position the filter securely on the monitor

DESCRIPTION	SCREEN DIAGONAL	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Glaremaster Contour Anti Rad	14-15"	77-93-66	37.42	42.00	40.74	39.52
Glaremaster Contour Anti Rad	17-18"	86-87-12	47.79	50.00	49.50	49.01
Glaremaster Contour Anti Rad	19-21"	66-76-23	59.26	62.00	61.38	60.77
Glaremaster Contour Anti-Glare	14-15"	31-35-62	29.40	33.00	32.01	31.05
Glaremaster Contour Anti-Glare	17-18"	90-52-73	39.67	41.50	41.09	40.67
Glaremaster Contour Anti-Glare	19-21"	39-61-27	54.48	57.00	56.43	55.87
Glaremaster Security	14-15"	57-39-22	58.80	66.00	64.02	62.10
Glaremaster Security	16-19"	35-20-31	78.40	88.00	85.36	82.80
Glaremaster Glass Anti-Glare (pic not shown)	13-15"	96-65-91	17.81	19.99	19.39	18.81
Glaremaster Glass Anti-Glare (pic not shown)	16-17"	37-00-03	27.62	31.00	30.07	29.17
Glaremaster Glass Anti Rad (pic not shown)	13-15"	96-65-84	20.98	21.95	21.73	21.51
Glaremaster Glass Anti Rad (pic not shown)	19-21"	64-77-91	44.10	49.50	48.02	46.57
Glaremaster Anti-Glare (pic not shown)	16-17"	37-00-10	19.60	22.00	21.34	20.70
Glaremaster Anti-Glare (pic not shown)	19-21"	53-77-94	40.14	42.00	41.58	41.16
Glaremaster Anti Rad (pic not shown)	13-15"	64-77-97	24.06	27.00	26.19	25.40
Glaremaster Anti Rad (pic not shown)	16-17"	77-83-33	32.50	34.00	33.66	33.32

OTHER ITEMS

FOR CLEANING PRODUCTS SEE PAGES 535–540
FOR OUR RANGE OF WRIST RESTS SEE PAGE 506
FOR MORE SCREEN FILTERS SEE PAGES 520–525

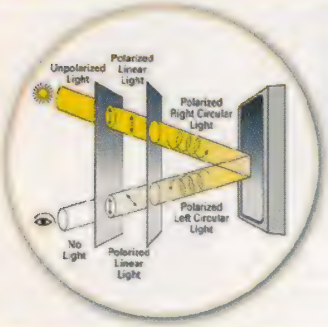
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PLEASE MEASURE YOUR SCREEN BEFORE PLACING YOUR ORDER

SCREEN FILTERS

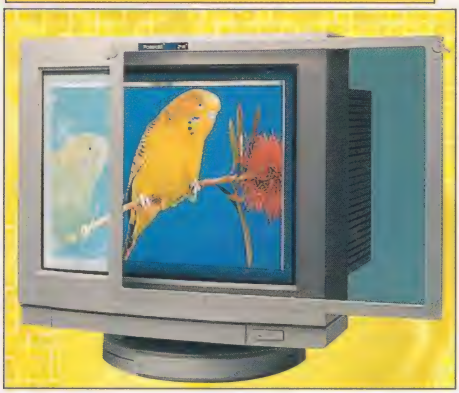
Polaroid



Technology Makes the Difference

Circular Polarizing (CP) technology is the key to the superior performance of the Polaroid CP filter range. Light reflected from the monitor is literally trapped behind the filter, allowing only useful, information-carrying light to pass. As much as 12 times more effective in fighting computer glare than other types of filters and 14 times more effective in enhancing contrast.
The result: enhanced visual ergonomics and increased productitivity.

Circular Polarized Optical Glass Range



Universal Mount
Series: CP Gold, CP I



Contour Mount
Series: CP Gold, CP I, CP III

Why are Polaroid Filters the ultimate in contrast enhancement and glare reduction technology?
The EEC Tariff Commission has ruled that Polaroid Circular Polarizing Computer filters fall under the category of 'optical devices because they include a polariser as an added functional layer, while most computer anti-glare filters fall into the category of computer accessory'.

Do you have a new larger screen? The bigger surface area could give you more glare problems.

All Polaroid Glass CP-Filters:

- Feature a two layer circular polariser to provide the optimum technology for glare control, contrast enhancement and overall optical performance.
- Combine durable thin film, anti-reflective coatings and optical glass.
- Absorb 99% of reflected light, eliminate up to 99% glare and are as much as 14 times more effective than other kinds of filters for improving contrast.
- Attach easily to most monitors and are colour compatible and UV absorbing.
- Polaroid CP-filters are classified by the EEC as an optical device.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Falcon Anti-static Screen Wipes (3 tubs x 70)	04-04-62	6.10	6.85	6.64	6.45

OTHER ITEMS

FOR CLEANING PRODUCTS SEE PAGES 535–540
FOR FULL RANGE OF WRIST RESTS SEE PAGE 506
FOR MORE SCREEN FILTERS SEE PAGES 519–525

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PLEASE MEASURE YOUR SCREEN BEFORE PLACING YOUR ORDER

SCREEN FILTERS

Polaroid

WHY TRUST YOUR EYES TO AN ORDINARY FILTER?

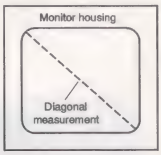
Select a filter to suit your needs

CP Glass Polarized Range: Gold, CPI, CPIII Series

CP-Gold Series (Premium Choice):
- The ultimate in polarizing filters.
- Vacuum deposited multi-layer anti-reflective coating for optimal performance.
- Reduces up to 98% of VLF/ELF electric field radiation and eliminates static.
- Universal or contour mounting.

CP-I Series
- Proprietary anti-reflective coating.
- Reduces up to 98% electric field radiation and eliminates static.
- Universal or contour mounting.

CP-III Series
- Proprietary anti-reflective coating.
- Contour mounting.







DESCRIPTION	SCREEN DIAGONAL	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
POLAROID CP-GOLD SERIES – GLASS, POLARISING, ANTI-STATIC/ANTI-RADIATION						
Polaroid CP-Universal Gold	13" to 15" (330–381mm)	92-46-43	57.87	64.95	63.00	61.11
Polaroid CP-Contour Gold	13" to 15" (330–381mm)	97-84-31	62.08	64.95	64.30	63.66
Polaroid CP-Universal Gold	16" to 18" (404–445mm)	91-03-58	76.23	79.75	78.95	78.16
Polaroid CP-Contour Gold	16" to 18" (404–445mm)	45-45-46	80.14	89.95	87.25	84.63
Polaroid CP-Universal Gold	19" to 21" (483–533mm)	91-03-65	89.05	99.95	96.95	94.04
POLAROID CP-I SERIES – GLASS, POLARISING, ANTI-STATIC/ANTI-RADIATION						
Polaroid CP-Universal I adapts universal Contour	13" to 15" (330–381mm)	90-58-44	8.86	9.95	9.65	9.36
Polaroid CP-Contour I	13" to 15" (330–381mm)	97-84-48	51.63	57.95	56.21	54.53
Polaroid CP-Universal I	16" to 18" (404–445mm)	97-84-55	57.30	59.95	59.35	58.76
Polaroid CP-Contour I	16" to 18" (404–445mm)	45-45-60	60.54	67.95	65.91	63.93

OTHER ITEMS

FOR CLEANING PRODUCTS SEE PAGES 535–540
FOR FULL RANGE OF WRIST RESTS SEE PAGE 506
FOR MORE SCREEN FILTERS SEE PAGES 519–525

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PLEASE MEASURE YOUR SCREEN BEFORE PLACING YOUR ORDER

SCREEN FILTERS

Polaroid

CP Triacetate – CP-II



CP-II

Why trust your eyes to an ordinary filter?

POLAROID CP-II Filters features:

- A circular polariser to provide optimum optical performance.
- Optical triacetate, safer than cheap non-safety glass filters.
- Proprietary anti-reflective coating to dramatically reduce front surface reflections.
- An electrically conductive coating to reduce 98% of VLF/ELF electric field radiation and eliminate static.
- Central mounting system.

Polaroid non-polarised Filters

New AG400 Series

- Non-polarising optical glass.
- Reduces up to 99% of screen glare.
- Reduces up to 98% of radiation and static.
- Higher transmission for a brighter display.
- Multi-layer anti-reflection coating.
- Excellent value for money.



AG400



PolaClean Cleaner
specially formulated for all Polaroid Filters.

DESCRIPTION	SCREEN DIAGONAL	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
POLAROID CP-II SERIES – PLASTIC, POLARISING, ANTI-STATIC/ANTI-RADIATION						
Polaroid CP-Universal II	13" to 15" (330–381mm)	91-03-34	31.14	34.95	33.90	32.88
POLAROID AG400 NON POLARISED FILTERS						
Polaroid AG400 Non Polarised	13" to 15" (330–380mm)	68-99-64	21.16	23.75	23.04	22.35
Polaroid AG400 Non Polarised	16" to 18" (404–445mm)	68-99-71	24.81	27.85	27.01	26.20
PolaClean Optical Surface Cleaner	2 × 118ml bottles	70-31-01	5.30	5.95	5.77	5.60

OTHER ITEMS
FOR CLEANING PRODUCTS SEE PAGES 535–540
FOR FULL RANGE OF WRIST RESTS SEE PAGE 506
FOR MORE SCREEN FILTERS SEE PAGES 519–525

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PLEASE MEASURE YOUR SCREEN BEFORE PLACING YOUR ORDER!

SCREEN FILTERS

3M

Discover the clear advantages of a 3M Computer Filter

Unboxed with differentiator

SCOTCHGARD Protection
For Easy Clean Surfaces

All the 3M models shown now have the new 3M "Scotchgard" coating – a unique surface which resists grease and those annoying fingerprints, making them less visible and easier to wipe clean with just a soft cloth.

Professional Range
FEATURES



- **Anti-glare filter (AF100) –** reduces glare by up to 95%, improves contrast.
- **Anti-glare/ Radiation (AF200) –** in addition to reducing glare, also blocks 99% of ELF/VLF E-Field radiation and prevents static and dust build-up.
- **Anti-glare/Radiations Privacy Filter (PF400) –** keeps data private and blocks 99.9% of ELF/VLF E-Field radiation and prevents static and dust build-up.
- **Anti-glare Privacy Filter (PF500) –** reduces glare and keeps data private so that anyone looking from the side sees only a dark screen.



Executive Range
Wraparound contour frame with medium tint glass for accurate colour representation and improved contrast.
FEATURES:

- **Anti-glare filter (AF150) –** reduces glare by up to 99%.
- **Anti-glare/Radiation (AF250) –** in addition to glare reduction, blocks 99.9% of ELF/VLF E-Field radiation and prevents static and dust build-up.
- **Anti-glare/Radiation Privacy Filter (PF450) –** as well as reducing glare and radiation, the privacy filter helps to keep your data private – only you see the screen.

ACTION Recommends...



3M™ Precise Mousing Surface*
Cat No. 04-07-47
See page 507.

DESCRIPTION	SCREEN DIAGONAL	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
PROFESSIONAL RANGE						
AF100L Anti-glare filter	13"-15"	66-56-65	18.16	19.00	18.81	18.62
AF200XL Anti-glare/Radiation filter (**10+1 Free**)	16"-18"	06-18-04	345.00	➧	380.00	376.20
AF200L Anti-glare/Radiation filter	13"-15"	92-64-38	30.25	33.95	32.93	31.94
AF200XL Anti-glare/Radiation filter	16"-18"	95-56-05	36.10	38.00	37.62	37.24
AF200XXL Anti-glare/Radiation filter	19"-21"	90-68-12	71.23	79.95	77.55	75.22
PF400L Anti-glare/Radiation Privacy filter	13"-15"	92-64-52	64.95	67.95	67.27	66.60
PF500L Anti-glare Privacy filter	13"-15"	67-95-41	57.30	59.95	59.35	58.76
EXECUTIVE RANGE						
AF150L Anti-glare filter	13"-15"	67-95-27	33.41	34.95	34.60	34.25
AF150L Anti-glare filter (**10+1 Free**)	13"-15"	06-31-23	170.23	➧	175.00	173.25
AF150XL Anti-glare filter	16"-18"	67-95-34	47.74	49.95	49.45	48.96
AF250L Anti-glare/Radiation filter	13"-15"	90-65-75	37.23	38.95	38.56	38.17
AF250XL Anti-glare/Radiation filter	16"-18"	90-68-36	58.76	65.95	63.97	62.05
PF450L Anti-glare/Radiation Privacy filter	13"-15"	90-68-81	76.42	79.95	79.15	78.36

For more products/details check **www.action.com/3m**

OTHER ITEMS
FOR CLEANING PRODUCTS SEE PAGES 535–540
FOR COPYHOLDERS SEE PAGE 505

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

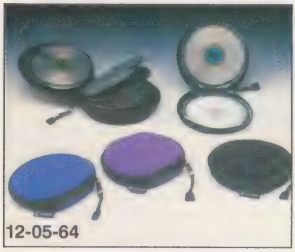
INTRODUCTION TO STORAGE PRODUCTS

A place for everything...











With more and more Magnetic Media being used in offices today, finding the room to store everything efficiently can sometimes be impossible.

Now with an enormous choice of quality storage boxes for all types of Magnetic Media including Diskettes, CD-ROMs, Optical Disks and Tape Cartridges you won't struggle to find the space any more.

Our extensive range of leading brand storage solutions are all available at low low prices and can be found on pages 527–533.









The CD3 is designed so that your compact discs are spaced apart. The CD3 stores up to 80 CDs and lists their titles by number. To have access to a specific CD, simply line up the sliding indicator with the desired title and number and open the top. The CD you have selected is automatically presented to you.

For pricing please turn to page 529.

OTHER ITEMS

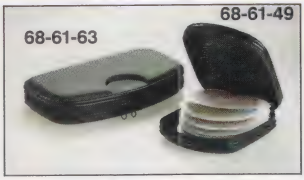
FOR A RANGE OF STORAGE SOLUTIONS SEE PAGE 527–533

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CD PORTABLE STORAGE & CASES



Accodata CD Wet Suits
- 24 CD capacity, available in black only.



Exponent CD Wallet
- 20 or 40 CD capacity.
- Available in black only.



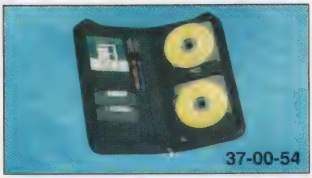
Exponent CD Jewel Case 10-95-85
- Available in single or double CD format.
- Comes in pack of 10.



Belkin CD Wallet
- Durable nylon with thick form padding & zippered closures.
- Available 12, 24 and 36 capacity.



Belkin Wallet
- Durable nylon with thick foam padding and zippered closure.



Curtis Multimedia Wallet
- Attractive, fabric finish.
- Holds a combination of CDs disks plus storage for pens.
- 12 CD sleeves are included with the product.



Fellowes Portable CD Case 46-90-29
- 32 CD capacity.



Fellowes Visor CD Album 45-35-21

DESCRIPTION	CAPACITY	UNIT/PACK	CAT NO	Web Price	PRICE PER PACK £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Accodata CD Wet Suits (Black)	24	1	12-05-64	7.80	8.75	8.49	8.23	
Exponent CD Wallet (Black)	20	—	68-61-49	7.08	7.95	7.71	7.48	
Exponent CD Wallet (Black)	40	1	68-61-63	9.76	10.95	10.62	10.30	
Exponent Single CD Jewel Cases	1	10	10-95-85	3.96	4.45	4.32	4.19	
Exponent Double CD Jewel Case	2	10	10-95-92	5.75	6.45	6.26	6.07	
Belkin 12 Disk Capacity Wallet	12	—	22-51-69	7.12	7.99	7.75	7.52	
Belkin 24 Disk Capacity Wallet	24	—	12-10-05	10.68	11.99	11.63	11.28	
Belkin Data Disk Wallet	36	—	36-99-34	7.12	7.99	7.75	7.52	
Belkin 36 Disk Capacity Wallet	36	—	38-29-09	15.14	16.99	16.48	15.99	
Curtis Multimedia Wallet	12	1	37-00-54	13.32	14.95	14.50	14.07	NEW
Fellowes Portable CD Case	32	1	46-90-29	9.76	10.95	10.62	10.30	
Fellowes 96 CD Album	96	1	49-35-21	17.77	19.95	19.35	18.77	

OTHER ITEMS

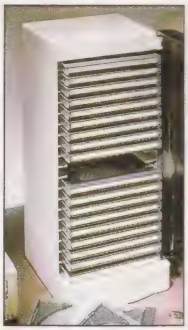
FOR A FULL RANGE OF MAGNETIC MEDIA SEE PAGES 1035–1071
FOR MORE MEDIA STORAGE SEE PAGES 527–533

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CD STORAGE



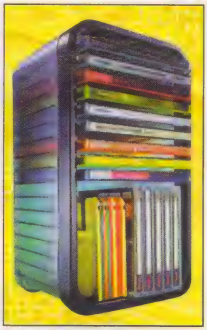
Fellowes Wire Rack 46-89-10
- Stores 20 CDs.



Fellowes CD Tower 12-00-52



Fellowes CD Spring 12-03-75



Fellowes Invision CD Tower 52-94-79



Azcom CD3 CD Storage System 12-10-06
- Stores 60 CDs.
- Index for easy access.
- Handle for portability.
- Tough ABS plastic double wall construction.



Curtis CD Traveller 39-61-51
- Slim-profile case, 18mm thick, fits easily into a computer bag.
- Stores 5 CDs each in its own protective sleeves.
- Sleeves feature index tabs and labels for faster filing, easier retrieval.
- Rear pocket hold linear notes or documentation.



Kensington CD Korner 69-24-87
- Can fit either in corner, back to back or can lay vertically or horizontally.
- Wall mountable.
- CDs can be stored side or face on.

	DESCRIPTION	CAPACITY	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	Azcom CD3 Disk Storage	60	12-10-06	16.04	18.00	17.46	16.94
	Fellowes CD Tower	20	12-00-52	10.20	11.45	11.11	10.77
	Fellowes CD Spring Tower	48	12-03-75	11.57	12.99	12.60	12.22
	Fellowes CD Spring Tower	25	47-59-34	8.86	9.95	9.65	9.36
	Fellowes CD Wire Rack	20	46-89-10	4.45	4.99	4.84	4.70
NEW	Curtis CD Traveller	5	39-61-51	3.96	4.45	4.32	4.19
	Kensington Invision CD Tower	16	52-94-79	8.80	10.25	9.84	9.45
	Kensington CD Korner	20	69-24-87	8.69	9.75	9.46	9.17

OTHER ITEMS
FOR A FULL RANGE OF MAGNETIC MEDIA SEE PAGES 1035–1071
FOR MORE MEDIA STORAGE SEE PAGES 527–533

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CD STORAGE

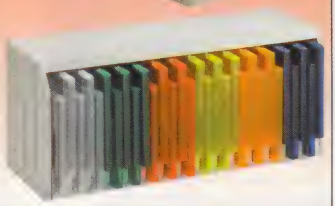
EXPONENT Fellowes

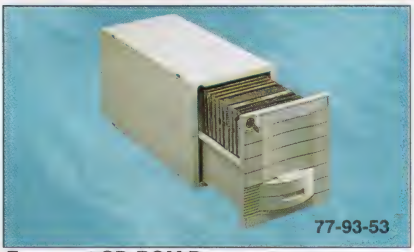


CD Personal Library
- Stores 96 CDs without the jewel case.
- Unit incorporates eight modules (right) each storing 12 CDs.
- Each module can be labelled to catalogue CDs.
- Sliding front door saves space and protects CDs from U.V. and dust.
- Stackable with similar units and with 53-77-69 CD Personal Box so you can increase your storage capacity as your needs grow.



CD Personal Box
- Stores 30 CDs with the jewel case.
- Each CD is stored either higher or lower than it neighbours to ease retrieval.
- Stackable with similar units or with 64-77-74 CD Personal Library.





Exponent CD-ROM Drawer stores:
- 28 CD-ROMs with Jewel cases.
- 27 ZIP cartridges.
- 16 Travan cartridges.
- 90 3½" diskettes.
- 16 DC 1000/2000 cartridges.
- 42 LS120.



Fellowes 20 CD Flip File
- Flipper design for easy access.
- Non-skid feet prevent scuffing.

DESCRIPTION	CAPACITY	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Exponent CD Personal Library	96	64-77-74	8.50	11.99	11.63	11.28
Kodak (100pk) Silver Ultima 74min 650MB + CD Library	—	04-18-30	64.91	72.95	70.66	68.54
Exponent Media Solutions CD-ROM Drawer	25	90-77-56	10.65	11.95	11.59	11.24
Exponent Media Solutions CD-ROM Drawer and Additional Dividers	28	04-06-13	14.25	15.99	15.51	15.04
Exponent CD Personal Box	30	53-77-69	6.00	8.00	7.76	7.53
Fellowes 20 CD Capacity Flip File (Black)	20	77-93-53	2.63	2.95	2.86	2.78

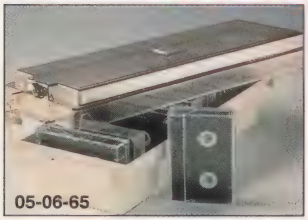
OTHER ITEMS
FOR A FULL RANGE OF MAGNETIC MEDIA SEE PAGES 1035–1071
FOR MORE MEDIA STORAGE SEE PAGES 527–533

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DATA CARTRIDGE STORAGE

ABA Systems | Fellowes

All ABA data cartridge boxes fit in suspended frame filing systems.



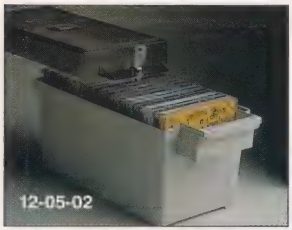
ABA 4mm Data Cartridge Box



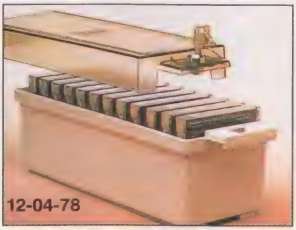
ABA 4mm Tape Flipper Box



ABA DC-2000 Data Cartridge Box



ABA Compack Disk Storage

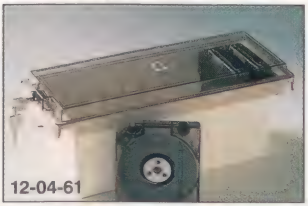


ABA 3½" Optical Disk Storage



ABA 5¼" Optical Disk Storage


Fellowes Data Cartridge Box



ABA 3480 Tape Cartridge



ABA Travan Cartridge Box

DESCRIPTION	CAPACITY	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
ABA DDS 4mm Data Cartridge Box (**2 pack**)	12	05-06-65	17.77	19.95	19.35	18.77
ABA 8mm Data Cartridge Box (**2 pack**)	10	05-06-89	20.50	21.45	21.24	21.02
ABA 4mm Tape Flipper Box (**2 pack**)	10	05-06-72	20.50	21.45	21.24	21.02
ABA DC-600 Data Cartridge Box (**2 pack**)	10	05-06-96	20.00	22.45	21.78	21.12
ABA DC-2000 Data Cartridge Box	10	10-72-26	8.90	9.99	9.69	9.40
ABA Compack Disk Storage	20	12-05-02	9.03	9.45	9.36	9.26
ABA Optical Disks 3½" Cartridge Box	12	12-04-78	8.66	8.99	8.90	8.81
ABA Optical Disks 5¼" Cartridge Box	10	12-04-85	20.04	22.49	21.82	21.16
ABA 3480 Tape Cartridge	10	12-04-61	11.54	12.95	12.56	12.18
ABA Travan Cartridge Box	10	12-04-92	9.30	9.75	9.65	9.56
Fellowes 4mm Data Cartridge Box	10	12-00-38	9.79	10.99	10.66	10.34
Fellowes 8mm Data Cartridge Box	10	12-00-45	7.46	7.75	7.67	7.60

OTHER ITEMS

FOR MAGNETIC MEDIA PRODUCTS SEE PAGES 1035–1071
FOR CLEANING PRODUCTS SEE PAGES 535–540

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MULTIMEDIA STORAGE

EXPONENT

Exponent have improved the original Cassetta 2000 storage system!

- ✓ **Stackable with original Cassetta.**
- ✓ **Higher capacity than original Cassetta.**
- ✓ **Better looking than original Cassetta.**
- ✓ **Less expensive than original Cassetta.**

Better than original Cassetta!



Corello Mobile base & top

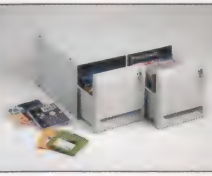
CASSETTA 2000 MULTIMEDIA STORAGE

A range of 3 high quality media storage drawers that enable you to create exactly the personal storage system you need, whilst ensuring ease of retrieval, security and unlimited growth.

The new Cassetta 2000 range has unrivalled storage capacity to enable you to store all your media in one place no matter how much you need to store. Just keep building as your storage needs growth.

FEATURES:

- Stand alone or stackable.
- Drawers contain a Media Stopper® Bar that enables you to carry your media safely.
- The Mobile Top and Base can be used to build the system into a mobile pedestal.
- Units all include translucent blue internal dividers, metal lock and key, front label, connector clips.

CAPACITIES			
CD	74	48	—
3½" Diskette	300	—	210
Zip	69	52	60
4mm DAT	72	—	—
DLT	20	18	—
LS120	117	—	81
Cat No.	47-46-29	47-46-98	47-47-15

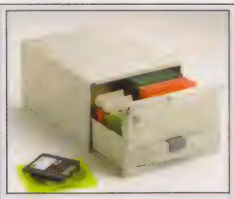
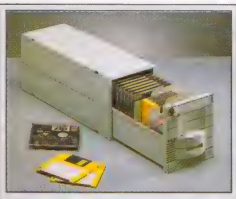
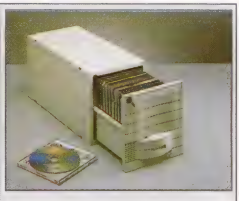
DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Exponent Cassetta 2000 Triple Disk Drawer	47-47-15	17.77	19.95	19.35	18.77
Exponent Cassetta 2000 CD Double Drawer	47-46-98	17.75	19.95	19.75	19.65
Exponent Cassetta 2000 Multimedia Drawer	47-46-29	17.75	19.95	19.75	19.65
Exponent Cassetta 2000 Corello Mobile Top & Base	75-78-08	17.77	19.95	19.35	18.77
Exponent Cassetta 2000 Triple Disk Draw Dividers × 6	12-10-11	1.47	1.65	1.60	1.55
Exponent Cassetta 2000 CD Double Draw Dividers × 6	22-51-76	1.78	2.00	1.94	1.88
Exponent Cassetta 2000 Multimedia Draw Dividers × 2	52-98-14	2.54	2.85	2.76	2.68

OTHER ITEMS
FOR A FULL RANGE OF MAGNETIC MEDIA SEE PAGES 1035–1071
FOR MORE MEDIA STORAGE SEE PAGES 527–533

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MODULAR MULTIMEDIA STORAGE/DISK STORAGE

These modular drawers from Exponent are specifically designed to store zip disks and/or 3½ diskettes in the smaller unit, and CD-ROMs in the larger unit. Each unit contains 5 dividers, 2 keys and a labelling kit.

CAPACITY	Media Solutions	Zip Drawer	CD-ROM Drawer
CD-ROM	47	–	28
ZIP Disk	52	25	27
Travan	—	—	16
3½" Diskettes	220	90	90
DC1000 / 2000	—	14	16
LS120	66	33	42
Cat No.	53-00-11	90-79-32	90-77-56



Fellowes Softworks Disk Box



Fellowes Softworks Multimedia CD File

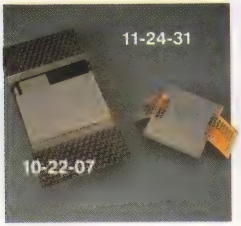
	DESCRIPTION	CAPACITY	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	Media Solutions Multimedia Drawer	See Table	53-00-11	13.36	15.00	14.55	14.11
	Media Solutions ZIP Drawer	See Table	90-77-32	8.50	11.35	11.01	10.68
	Media Solutions ZIP Drawer and Additional Dividers	See Table	04-06-06	11.28	14.95	14.50	14.00
	Media Solutions CD-ROM Drawer	See Table	90-77-56	10.65	11.95	11.59	11.24
	Media Solutions CD-ROM Drawer and Additional Dividers	See Table	04-06-13	14.25	15.99	15.51	15.04
	Fellowes Softworks Disk Box (Lockable)	50	45-92-28	3.95	4.50	4.36	4.23
	Fellowes Softworks Disk Box (Lockable)	100	45-92-35	5.75	6.45	6.26	6.07
NEW	Fellowes Softworks Multimedia File (without lock)	20CDs	46-59-82	4.77	4.99	4.94	4.89
NEW	Fellowes Softworks Multimedia File (lockable-grey)	20CDs	61-31-58	6.23	6.99	6.78	6.58
NEW	Fellowes Softworks Multimedia File (lockable-graphite)	20CDs	34-91-82	6.23	6.99	6.78	6.58

OTHER ITEMS

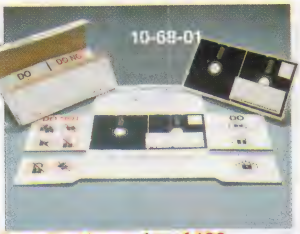
FOR A FULL RANGE OF MAGNETIC MEDIA SEE PAGES 1035–1071
FOR MORE MEDIA STORAGE SEE PAGES 527–533

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

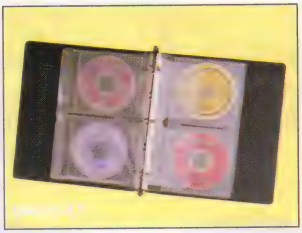
MAILERS, BINDERS & HARDWARE CLEANING PRODUCTS



Supplied in packs of 10.
Accodata 5¼″ Diskette/CD Mailers are produced from thick board and lined with aluminium foil and bubble film. **Also available for 3½″ diskettes.**



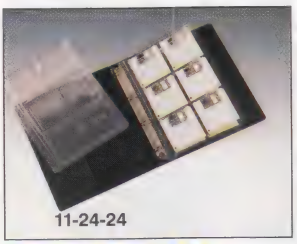
Supplied in packs of 100.
ABA CD/5¼″ Diskette Mailers are manufactured from thick corrugated board. **Also available for 3½″ diskettes.**



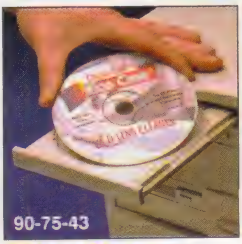
CD Binder Sheet
Made out of durable, clear plastic for use in 2, 3 or 4 ring binders. Each holds 2 CDs or 5.25″ disk. Special tuck-in flaps keep CDs secure and protected. **10 sheets per pack.**



Supplied in packs of 3.
Accodata CD Logirom holds 3 × CDs.



Supplied in packs of 5.
Accodata Logidisks come in A4 size and hold 6 × 3½″ disks.



CD Lens Cleaner
Absorbs electrostatic discharge and dust, improving sound quality and extending equipment life. Compatible with all CD players, CD-ROM equipment and CD-I drives. Music and voice instructions.



Accodata QuickDisk
- Stores 6 × 3½″ diskettes.
- Complete with Index Labels.

DESCRIPTION	CAPACITY	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Accodata CD/5¼″ Diskette Mailer **(10 pack)**	1	10-22-07	11.46	11.99	11.87	11.75	
Accodata 3½″ Diskette Mailer **(10 pack)**	1	11-24-31	12.43	13.95	13.53	13.13	
ABA 5¼″ Diskette/CD Mailer **(100 pack)**	2	10-67-91	43.96	45.99	45.53	45.07	
ABA 3½″ Diskette Mailer **(100 pack)**	2	10-68-01	31.14	34.95	33.90	32.88	
Fellowes CD Binder Sheet	10 sheet	53-78-16	5.69	5.95	5.89	5.83	
Accodata Logidisk **(5 pack)**	6	11-24-24	7.34	11.95	11.00	10.00	
Accodata CD Logirom **(3 pack)**	3	53-01-11	4.25	4.45	4.41	4.36	NEW
Falcon CD Lens Cleaner	1	90-75-43	3.55	3.99	3.87	3.75	
Accodata QuickDisk	3	40-78-25	3.82	4.45	4.27	4.10	NEW

OTHER ITEMS

FOR MAGNETIC MEDIA SEE PAGES 1035–1071
FOR MAGNETIC MEDIA STORAGE SEE PAGES 527–533

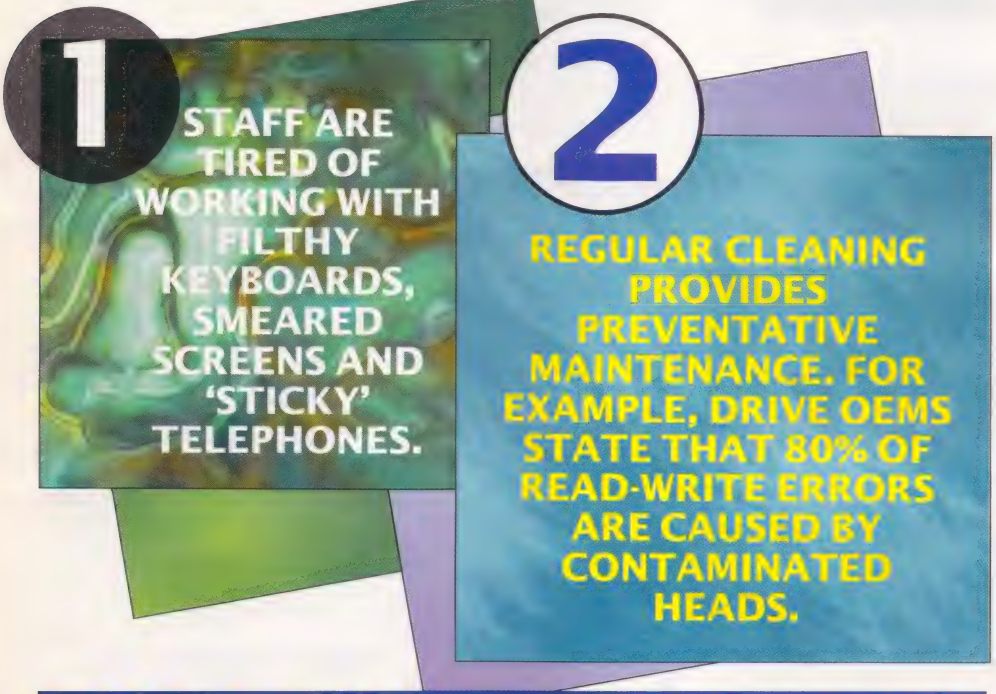
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

GUIDE TO – CLEANING

The IMPORTANCE of CLEANING...

Why should you use Computer Cleaning Products

Companies are increasingly recognising the importance of regular computer cleaning primarily for two reasons:



Which Prodcuts should you use?

It is essential that computer/office equipment cleaning products are designed for the job – they must be safe to both the equipment and the user. Action offer a comprehensive range, from screen wipes (which are non-flammable and can be used with anti-glare filters) to drive cleaning kits. All products are designed to be used by office staff – just a few minutes a month could help to prolong the life of your computer equipment and create a cleaner working environment.*
New users could try a Multi-Purpose Cleaning Kit – this offers a solution to the most common cleaning problems complete with instructions.

**Except mesh type.*

Cleaning products are only to be used as per instructions.

OTHER ITEMS
FOR ALL CLEANING PRODUCTS SEE PAGES 535–540

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CLEANING PRODUCTS



Belkin Zero Charge® Screen and Keyboard Cleaning Wipes
- Perfect for cleaning monitor screen and other home/office electronic equipment
- Leaves surfaces static free
- Non-abrasive, non-toxic and non-streaking formula.
- Convenient pop-up dispenser provides easy accessibility



Belkin Blaster™ Pressurised Air Duster
- Variable pressure control
- Non-abrasive and moisture free
- Available in 83ml or 283ml cans



Belkin 3.5" and CD Drive Cleaning Kit
- Cleans and maintains 3.5" diskette and CD drives

ClearJet™ Printhead Cleaning Cartridge
The revolutionary printhead cleaning cartridge from AF for EPSON®, Canon® and compatible printers has been devised to gently flush out dirt and blockages from permanent ink nozzles. Using a safe solution of specially formulated solvents and detergents, **ClearJet™** is able to clean the whole printhead quickly and thoroughly, hence restoring print quality and extending printer life.
- Restores premium print quality and optimum printhead efficiency
- Extends printer life and reduce print cost
- Easy to use – simply load the cartridge in the same way as an ink cartridge and then follow simple instructions on the disk provided with your kit



ClearJet™ Compact Cleaning Kit
The ClearJet™ Compact Cleaning Kit has been developed specially for use with Hewlett-Packard®, Lexmark™ and compatible inkjet cartridges. Regular cleaning with the ClearJet™ Kit will prevent dried out ink deposit, hence preventing blocked nozzles.
- Extends printer life
- Maintains print quality
- Lower long term print cost

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Belkin Monitor Cleaning Wipes	53-77-35	7.72	8.99	8.63	8.29
Belkin Blaster™ Pressurised Air Duster 83ml	38-29-08	3.55	3.99	3.87	3.75
Belkin Blaster™ Pressurised Air Duster 283ml	36-99-33	6.23	6.99	6.78	6.58
Belkin 3.5" and CD Drive Cleaning Kit	64-77-37	8.58	9.99	9.59	9.21
Canon BJC600/610/620 – Black/Colour Cartridge	22-52-17	15.14	16.99	16.48	15.99
Canon BJC4000/4100/4200 – Black/Colour Cartridge	12-11-31	10.68	11.99	11.63	11.28
Epson Stylus Colour 400, 440, 500, 600, 640, Photo, Photo 700, Photo 750 Photo EX	39-61-37	9.79	10.99	10.66	10.34
Epson Stylus Colour 400, 440, 600, 640, 740, 800, 850, 1520	86-87-18	11.57	12.99	12.60	12.22
Clearjet Kit for HP/Lexmark	35-20-37	6.01	6.75	6.55	6.35
Screenclene duo	81-41-90	3.43	4.00	3.84	3.69

OTHER ITEMS
FOR KEYBOARDS AND MICE SEE PAGES 280–293
FOR A RANGE OF MOUSE MATS AND WRIST RESTS SEE PAGES 506, 507

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

GAS DUSTERS

FALCON

Falcon Dusters safely and quickly blow away loose dust, dirt and lint from computer vents and air flows, and from the electronics inside the machine. the powerful blast of the Duster will also blow debris from virtually any surface enabling you to clean all your office equipment. CFC-free and non-global warming, Falcon dusters are the environmentally friendly choice.



Dust-Off® XL and JR Gas Dusters
The Dust-Off® XL 88009 and JR 88006 are ideal for basic cleaning jobs such as keyboard and general work station cleaning. The sensitive valve and the generous canister sizes combine to give you unrivalled value.

FEATURES:
- XL (Extra large) Contains 300ml
- JR (Junior) Contains 109ml







The Dust-Off® Pro System 88080
The Dust-Off® Pro System operates from any angle – even upside down!
The system includes oversized canister and holder, 2.44m hose/valve/Pro Gun and bracket. The canister remains upright in its holder while you manipulate the gun to blast dust from previously inaccessible surfaces. The valve can be refitted to the Pro Refill 88081 so you can go on benefitting from its incredible performance for the price of a disposable duster.

The Dust-Off® Plus System 88001
The Dust-Off Plus uses the 360° Vector Valve to clean all surfaces whatever the angle. Simply twist the extra-long nozzle in the direction you require and blow the dust away. The sensitive valve can regulate the force of the blast to enable you to use the plus efficiently. The valve can be fitted to the plus refill 88003, in the same way as the Pro system.

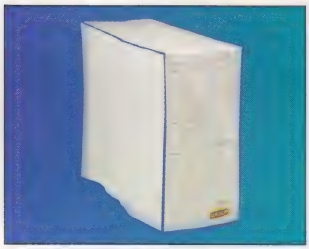
DESCRIPTION	VOLUME	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Dust-Off Pro System 88080	529ml can	53-77-07	35.59	39.95	38.75	37.59
Dust-Off Pro-**refill** 88081	529ml can	64-77-11	6.19	6.95	6.74	6.54
Dust-Off Plus System 88001	529ml can	38-28-66	17.77	19.95	19.35	18.77
Dust-Off Plus-**refill** 88003	300ml can	36-99-02	3.34	3.75	3.64	3.53
Dust-Off JR Gas Duster 88006	190ml can	52-96-96	2.63	2.95	2.86	2.78
Dust-Off XL Gas Duster 88009	300ml can	90-54-28	3.50	3.99	3.87	3.75
NEW Dust-Off XL Gas Duster **(3 pack)**	3×300ml can	06-18-21	10.00	11.75	11.50	11.10

OTHER ITEMS FOR MORE CLEANING PRODUCTS SEE PAGES 535–540

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DUST COVERS

KENSINGTON



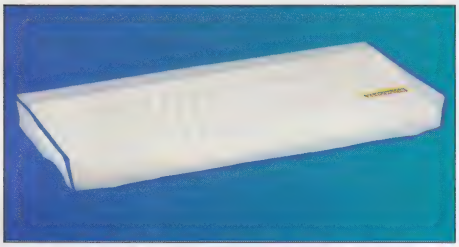
Mini Tower Dust Cover



Laser Printer Dust Cover



Monitor Dust Cover



Keyboard Dust Cover



Inkjet Printer Dust Cover

Dust covers are a low cost and simple way to help extend the life expectancy of your machine. They protect your machine from the build up of dust, dirt, static electricity and accidental spills which affect the performance of your hardware. On a lighter note they also reduce the need for routine tasks like cleaning.

- Made from easy wipe clean material.
- Helps reduce machine maintenance costs.
- Water and tear resistant.
- Reinforced Seams.

DESCRIPTION	H × W × Dmm	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Kensington Mini Tower Dust Cover	370 × 210 × 480	37-00-02	3.39	3.95	3.79	3.64
Kensington Monitor 12-15" Dust Cover	390 × 390 × 440	53-77-87	3.39	3.95	3.79	3.64
Kensington Monitor 16-17" Dust Cover	450 × 430 × 440	64-77-90	3.82	4.45	4.27	4.10
Kensington Monitor 19-21" Dust Cover	510 × 540 × 560	77-83-24	4.25	4.95	4.75	4.56
Kensington Monitor/CPU 12-15" Dust Cover	450 × 450 × 450	31-35-55	4.25	4.95	4.75	4.56
Kensington Monitor/CPU 16-17" Dust Cover	520 × 520 × 520	90-52-67	4.68	5.45	5.23	5.02
Kensington Monitor/CPU 19-21" Dust Cover	570 × 570 × 570	39-61-22	5.11	5.95	5.71	5.48
Kensington Keyboard Small Dust Cover	50 × 480 × 200	77-93-60	2.53	2.95	2.83	2.72
Kensington Keyboard Large Dust Cover	60 × 550 × 240	86-87-07	2.99	3.95	3.79	3.64
Kensington Inkjet Printer Dust Cover	250 × 460 × 300	81-41-81	3.39	3.95	3.79	3.64
Kensington Impact Printer Dust Cover	180 × 650 × 420	66-76-19	4.25	4.95	4.75	4.56
Kensington Laser Printer (Small) Dust Cover	300 × 480 × 450	57-39-18	3.39	3.95	3.79	3.64
Kensington Laser Printer (Large) Dust Cover	420 × 570 × 600	35-20-27	4.25	4.95	4.75	4.56

OTHER ITEMS

FOR MORE CLEANING PRODUCTS SEE PAGES 535–540

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

OFFICE CLEANING PRODUCTS

KENSINGTON


53-00-21


12-11-01


38-29-89


37-00-00


38-29-90


53-77-86


64-77-89


39-61-20


77-93-58


90-52-65


77-83-23


66-76-17


12-11-02


53-00-23

DESCRIPTION	QUANTITY	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Kensington 3-in-1 Laser/fax/copier Cleaning Sheets	12 sheets	53-00-21	1.77	1.99	1.93	1.87
Kensington Toner Wipes Resealable	20	12-11-01	2.66	2.99	2.90	2.81
Kensington Lint-free Wipes	22	38-29-89	1.77	1.99	1.93	1.87
Kensington General Purpose & Phone Wipes	100	37-00-00	2.63	2.95	2.86	2.78
Kensington Handy Mini Tub General Purpose	60 wipes	53-77-86	1.74	1.95	1.89	1.83
Kensington Screen Cleaning Wipes	100	64-77-89	2.63	2.95	2.86	2.78
Kensington Handy Mini Tub Screen Cleaning	60 wipes	77-83-23	1.74	1.95	1.89	1.83
Kensington General Purpose & Phone Wipes	100	31-35-54	2.63	2.95	2.86	2.78
Kensington Anti-static foam Cleaner	1 × 300ml	90-52-65	1.74	1.95	1.89	1.83
Kensington CD Lens Cleaning Disk	1	39-61-20	4.41	4.95	4.80	4.66
Kensington Handy Mini Tub CD Cleaning Wipes	60 wipes	77-93-58	1.74	1.95	1.89	1.83
Kensington 3.5" Drive Head Cleaning Kit	–	86-87-05	1.74	1.95	1.89	1.83
Kensington 3.5" Drive Head & CD Lens Cleaning	–	66-76-17	6.19	6.95	6.74	6.54
Kensington Wet & Dry Screen Cleaning Wipes	12/12	53-00-23	1.47	1.95	1.89	1.83
Kensington Screen, Surface, Keyboard & Mouse Kit	–	12-11-02	6.19	6.95	6.74	6.54
Kensington Pressurised Air Duster (235ml)	1 × 235ml	38-29-90	4.41	4.95	4.80	4.66

OTHER ITEMS

FOR MORE CLEANING PRODUCTS SEE PAGES 535–540

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

GENERAL SURFACE CLEANING



PC-Clene 05-75-72
- Anti-static wipes.
- Impregnated with bio-degradable solution.
- Lint-free, tear resistant.



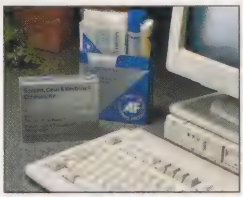
Foamclene: 06-95-67
- Anti-static.
- Suitable for all types of office equipment cases.
- Use with Safewipes/ Safecloths.



Labelclene 96-57-67
- Removes self-adhesive paper labels safely and efficiently from all surfaces.



Boardclene 46-74-23
- Foaming cleaner for use on whiteboards



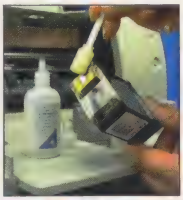
Screen, Case & Keyboard Cleaning Kit: 70-63-97
- 1 × 87ml Foamclene.
- 1 × 100ml Screen-Clene pump spray.
- 50 × Computiss.
- 4 × pairs Ultraclene.
- 1 × keyboard cleaning card.



Multi purpose Cleaning Kit: 70-64-14
- 1 × 300ml Foamclene.
- 1 × Screen-Clene pump spray.
- 25 × Safecloths.
- 25 × PC Buds.
- 25 × Phone-Clene telephone wipes.
- 50 Computiss.



Notebook Cleaning Kit 68-69-36
- Case containing everything required to keep notebooks in pristine condition.



Inkjet Printer Cleaning Kit 96-57-50
- 30ml roller fluid/30ml cleaning fluid.
- 2 × Ultraclene sachets.
- 6 × Foam tipped buds.
- 10 × Cotton cloths.

IMPROVED NEW CONTENTS

DESCRIPTION	QUANTITY	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
AF PC Clene (**3 pack**) Lower Price	300 Wipes	05-75-72	7.08	7.95	7.71	7.48
AF Foamclene Lower Price	6 × 300ml	06-95-67	10.20	11.45	11.11	10.77
AF Labelclene (**12ml pen**)	1 Pen	96-57-67	3.21	3.80	3.75	3.70
AF Boardclene	1 Can	46-74-23	2.96	3.45	3.31	3.18
AF Screen, Case & Keyboard Kit	SEE ABOVE	70-63-97	6.99	8.50	8.00	7.60
AF Multipurpose Cleaning Kit	SEE ABOVE	70-64-14	13.95	16.95	16.50	15.50
AF Notebook Cleaning Kit	SEE ABOVE	68-69-36	7.93	8.90	8.63	8.37
AF Inkjet Printer Cleaning Kit	SEE ABOVE	96-57-50	5.21	5.85	5.67	5.50

OTHER ITEMS
FOR CLEANING PRODUCTS SEE PAGES 535–540
FOR SCREEN FILTERS SEE PAGES 519–525

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

SCREEN/DRIVE CLEANING



Screen-Clene Duo 05-05-86
- 2 × 20 twin sachets – 1 wet/1 dry.
- Anti-static formulation.
- For use on glass/plastic.



Floppiclene 70-33-52
- Insert and run for 10 seconds.
- Disposable disks prevent re-contamination.
- Wet/dry action lifts oxides and other particles.
- Contains: 70ml Headclene spray (pump action) disposable disks jacket



Driveclene 98-76-80
- Compact cartridge for 4/8mm helical scan tape drives.
- Record usage log.
- 75 passes – 4mm, 12 passes – 8mm.



CD-Lensclene 46-74-09
- Disc fitted with microbrushes for cleaning lenses of CD-ROM, CD-R and audio CD drives.



PC Buds 97-52-90
- Flexible absorbent foam head.
- Designed for cleaning difficult-to-reach parts of hardware.
- Bud flexibility and thinness assists access.



Safewipes Large: 70-33-07
- 23cm² lint-free cotton squares.
- Ideal for screen or printer



Safecloths: 70-73-72
- 33 × 33cm non-woven cloth.
- Suitable for external surfaces.
- 1 bag of 50 cloths.



Printclene 97-53-00
- Specially coated paper for cleaning plain paper fax machines and laser printers.
- Removes toner and dirt from paper path and optics.
- No solvents required – each sheet can be used up to five times.

DESCRIPTION	QUANTITY	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
AF Screen-Clene Duo	40 pairs	05-05-86	13.64	18.65	18.50	18.25
AF Floppiclene 3.5"	20 Disks	70-33-52	11.54	12.95	12.56	12.18
AF 4mm Driveclene	SEE ABOVE	98-76-80	7.04	7.90	7.66	7.43
AF CD-Lensclene	SEE ABOVE	46-74-09	7.08	7.95	7.71	7.48
AF PC Buds	25 Buds	97-52-90	5.22	7.00	6.96	6.90
AF Safewipes Large	100 per pack	70-33-07	13.49	14.40	14.35	14.30
AF Safecloths	50 per pack	70-73-72	4.33	5.00	4.95	4.90
AF Printclene	25 Sachets	97-53-00	4.41	4.95	4.80	4.66

OTHER ITEMS
FOR CLEANING PRODUCTS SEE PAGES 535–540
FOR SCREEN FILTERS SEE PAGES 519–525

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

INDEX BY MANUFACTURER

3Com
Specialised Cables. 593

Adder Technology
KVM Extender. 562
KVM Switches. 560–561

ADS
USB Digital Video. 575

APC
Surge Protection. 588

Avro Pacific
Power Adaptor Kits. 583
Telephone Extension Kit. 618–619

Belkin
Bitronic Data Switches. 551
Bitronics Switches. 552
Bulk Cable Reels. 596
Cable Clips. 616
Cables – Cat 5/FastCat 5 Solid Core. 596
Cables – FastCat 5. 612–613
Cables – Flat Panel Monitors. 568
Cables – PC to Modem. 580
Cables – Snagless UTP Cat 5. . 608–611
Cable Testers. 631
Cable Ties. 615
Compact Auto Switches. 553
Computer Tool Kits. 634–635
Convert-a-Port Serial/Parallel Adaptors Kits. 590
DockStation. 548
File Transfer Cables. 569
IEEE 1284 Parallel Printer Cables. . . . 569
IEEE 1394 Cables. 575
KVM Switches. 555–559
LAN Cable Testers. 631
LVD Cables – SCSI. 579
LVD Terminators. 579
Monitor Sharer. 564
Surge Protection. 584–586
Tools. 637
Uninterruptible Power Supply. 587
USB BusPort Mobile. 548
USB BusStation. 543
USB Cables. 548
USB Ethernet Adaptors. 543
USB Extension Cables. 548
USB Modular Hubs. 543
USB Motherboard Adaptor Cables. . . 548
USB Products. 543–547
USB Serial Adaptors. 543
UTP Ethernet Installation Products . . 622, 625

Cisco Systems
Specialised Cables. 593

Connex
BNC Connectors & Adaptors. 592
Cable Reels. 583
Cables – Apple Printers. 582
Cables – Bulk Reels. 597
Cables – CD-ROM Audio. 582
Cables – Centronics. 574, 576
Cables – Centronics Extension. 574
Cables – crossover Cat5 Connection. 614
Cables – Half Pitch Centronics. . 577–578
Cables – IEEE 1284 Parallel Printer. . . 570
Cables – Internal Floppy Drive. 581
Cables – Internal IDE Drive. 581
Cables – Internal SCSI. 581
Cables – Keyboard Extension. 567
Cables – Monitor Extension. . . . 566, 568
Cables – Parallel File Transfer. 582
Cables – PC to Modem. 580
Cables – PC to Parallel Printer. . 571–572
Cables – PC to PC. 582
Cables – PC to Serial Printer. . . . 571–572
Cables – SCSI. 576–578, 582
Cables – Serial File Transfer. 581
Cables – Telephone Extension. 621
Cables – Universal. 573
Cables – Workstation Extension Kits. . 567
Cat 5 Through Couplers. 614
Computer Tool Kits. 636, 637
Connex UTP/STP Bulk Cables. 596
Crimp Tools. 632
Fibre Optic Cabling. 594
Gender Changers. 590
IBM Cabling System. 594
Keyboard Adaptors. 567
Mains Cables. 583
Modular & D-Type Connectors. 591
Monitor Splitters. 564
Patch Panels. 625
PC Adaptors. 589
PC Switches. 554
Printer Switches. 554
RS 232 Accessories. 589
Switches-KVM. 563
Telephone Adaptors & Connectors. . . 620
Telephone Extension Cables/Sockets/Kits 621
Thin Ethernet Cables. 595
Universal Termination Set. 632
UTP Ethernet Cables. 600–607

KRONE
Patch panels. 624
RJ-45 Cat 5 Accessories. 624

Meridian
LAN System Furniture. 628–630

Mills
Cable Testers. 631
Static Safe Field Service Kit. 632
Tool Kits. 637
Tools – Various. 636

Optimum
RJ-45 Cat 5E Accessories. 623

Shiva
Specialised Cables. 593

Targus
Notebook PC Accessories. 598
USB Products. 598

Voltex
Surge Protection. 588

Vulcascot
Cable Bridges. 616

Xircom
USB Products. 549

INDEX BY PRODUCT TYPE

Adaptors & Connectors – BNC 592
Adaptors & Connectors – for Telephone 620
Adaptors – for PCs 589
Adaptors – Keyboard 567
Adaptors – SCSI 582
Adaptors – Serial/Parallel 590
Bitronics Switches 551-552
Bulk Cable Reels 596
Cable Bridges 616
Cable Management 616
Cable Reels 583
Cables – Apple Printers 582
Cables – Bulk Reels 596-597
Cables – Cat 5/FastCat 5 Solid Core ... 596
Cables – CD-ROM Audio 582
Cables – Centronics 574, 576
Cables – Compact Parallel Switch 553
Cables – crossover Cat5 Connection ... 614
Cables – Ethernet 595, 600-607
Cables – FastCat 5 612-613
Cables – Fibre Optic 594
Cables – Flat Panel Monitors 568
Cables – IEEE 1394 575
Cables – Keyboard Extension 567
Cables – Mains 583
Cables – Monitor Extension 566, 568
Cables – Parallel File Transfer 582
Cables – Parallel Printer 569-570
Cables – PC to Modem 580, 582
Cables – PC to Printer 571-572, 575
Cables – SCSI 576-578, 581-582
Cables – SCSI LVD 579
Cables – Telephone Extension 621
Cables – Token Ring 596
Cables – Universal 573
Cables – UTP Cat 5 608-611
Cables – Workstation Extension Kits ... 567
Cable Testers 631
Cable Ties 615
Cat 5 Patch Panels 625
Cat 5 Through Couplers 614
Compact Auto Switches 553
Compact Parallel Switch Cables 551
Computer Tool Kits 633-635
Convert-a-Port Serial/Parallel Adaptors Kits 590
CPU Sharer 559
Extension Kits – Workstation 567
Gender Changers 590
Guide to Connectors 565
Guide to – Ethernet Installation Products 617
Guide to Network Cabling 599
Guide to – Switches 550
IBM Cabling System 594
Keyboard Adaptors 567
KVM Extender 562
KVM Switches 555-561
LAN Cable Testers 631
LAN System Furniture 628-630
Modular & D-Type Connectors 591
Monitor Sharer 564
Monitor Splitters 564
Network Racking System 623
Notebook PC Accessories 598
Patch Panels 624
Patch Panels – Cat 5 625
Power Adaptor Kits 583
Printer & PC Switches 554
RS 232 Accessories 589
Specialised Cables – Cisco, Shiva & 3Com 593
Static Safe Field Service Kit 632
Surge Protection 585, 586, 588
Switches – KVM 555-563
Telephone Extension Kit 618-619, 621
Terminators – SCSI LVD 579
Tool Kits 637
Tools – Various 624, 631-632, 634-637
Uninterruptible Power Supply 587
Universal Termination Set 632
USB BusPort Mobile 548
USB Cables & Accessories 548
USB Digital Video 575
USB Products 543-549, 584, 598
UTP Mounting Adaptors 624
UTP Patch Panels 624-625
UTP Wallplates 622, 624

USB PRODUCTS

BELKIN

What is the Belkin BusStation™?

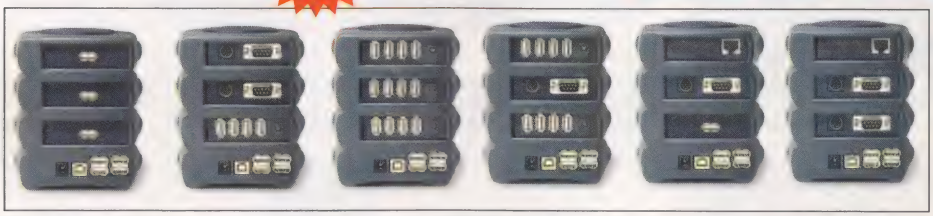
The Belkin BusStation is the first USB system designed to adapt to the way you work. The BusStation's innovative, patented modular design gives you the ability to create and customise your own USB environment.

The BusStation is "modular"! This makes the Belkin innovative patented design uniquely "customisable". Simply slide the USB port module out of the BusStation and you have room to snap in one of the many other Belkin USB modules, including SCSI ports, Ethernet ports and serial ports for PCs and Macintosh computers. You can even remove a single USB port from the BusStation and replace it with a 4-port hub, adding more downstream USB ports.

For Use with Win 98 & 2000



49-19-20
BusStation



Seven port hub (standard configuration)

Two serial and eight USB ports

Sixteen USB ports

One serial and twelve USB ports

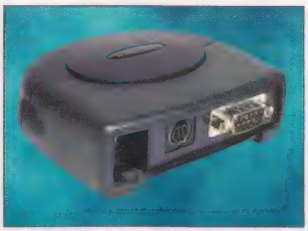
One Ethernet, one serial and five USB ports

One Ethernet, two serial and four USB ports

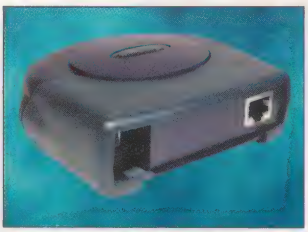
Belkin offers a complete line of USB products, each designed to work with your PC in combination with the BusStation.



4-Port Hub
Cat No 49-19-19
Connect up to 4 USB devices to a USB-ready computer with a USB port.



USB Serial Adaptor
Cat No 49-55-44. Connect any serial device using USB.



USB Ethernet Adaptor
Cat No 49-96-08. Share files, printers, play games and network through USB.

USB FOR USE WITH WIN 98 AND 2000

DESCRIPTION	PART NO.	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
USB Modular 4-Port Hub	F5U101u	49-19-19	36.99	38.25	38.20	38.15
USB Modular Serial Adaptor	F5U103	49-55-44	48.99	50.25	50.15	50.00
USB Modular Ethernet Adaptor	F5U111	49-96-08	42.99	44.29	44.19	44.09
USB BusStation (7 port hub)	F5U100u	49-19-20	59.00	60.29	60.19	60.09

OTHER ITEMS

FOR MORE USB PRODUCTS SEE PAGES 543–549

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

USB

Belkin offers a complete line of USB products, each designed to work with your Mac® or PC in combination with the BusStation.™

See Pages 543-548 for more details



4-Port Hub-CAT NO 49-19-19
Connect up to 4 USB devices to a USB-ready computer with a USB port.



USB Serial Adapter
CAT NO 49-55-44
Connect any serial device using USB.



USB Ethernet Adapter
CAT NO 49-96-08
Share files, printers, play games and network through USB.

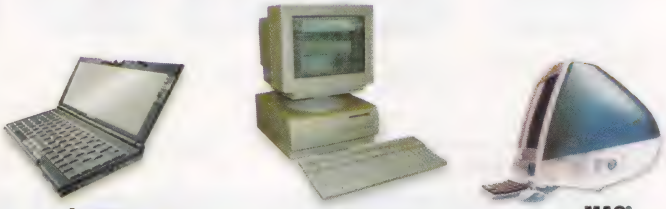
BELKIN®

What is the Belkin BusStation ?

The Belkin BusStation™ is the first USB system designed to adapt to the way you work. The BusStation's innovative, patented modular design gives you the flexibility to create and customise your own USB environment.

The basic BusStation™ is the finest 7-port USB hub available. The unique vertical design of the BusStation™ requires a minimum of your precious desktop space, while complementing your other desktop accessories. As a 7-port hub, the BusStation™ allows you to connect up to seven USB keyboards, mice, joysticks, printers, scanners, modems, or other USB devices to a single USB port on your Mac® or PC. And, like all Belkin USB hubs, the BusStation™ is fully compliant with USB specifications and compatible with all USB devices.

Here's how it works...



Laptop PC MAC®

The Belkin BusStation is a perfect docking Station for Laptop users!



• Serial • Ethernet • SCSI • USB • Parallel



Printer LAN Cable Modem USB Hubs Joystick

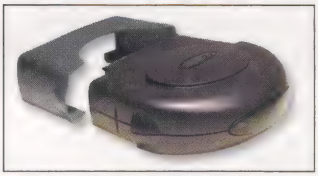
See Pages 543-548 for more details

The BusStation™ is "modular"! This makes the Belkin innovative patented design uniquely "customizable". Simply slide the USB port module out of the BusStation™, and you have room to snap in one of the many other available Belkin USB modules, including SCSI ports, Ethernet ports, and serial ports for PCs and Macintosh® computers. You can even remove a single USB port from the BusStation™, and replace it with a 4-port hub, adding more downstream USB ports!

By adding modules to the BusStation™, you can have your own custom-configured multi-function USB hub right at your fingertips! Configure it to fit your own personal needs, with the ports you actually use, instead of whatever pre-set combination other manufacturers think you should want. Add and subtract ports whenever you want – because it's USB, you don't even need to shut down your computer.

How easy is it to customise the BusStation ?

Easy as 1-2-3!



1. Simply slide off the sleeve of your module.

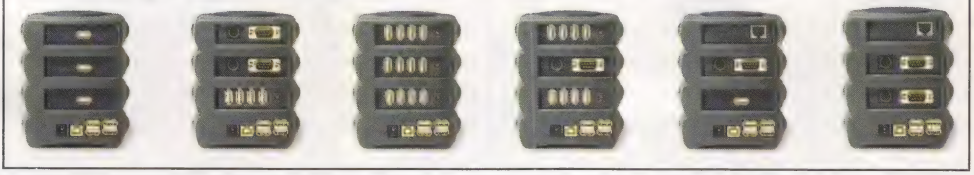


2. Slide the module into the BusStation™ base.



3. That's it! You have your own custom multi-functional USB system.

The possibilities are endless...



Seven port hub (standard configuration)

Two serial and eight USB ports

Sixteen USB ports

One serial and twelve USB ports

One Ethernet, one serial and five USB ports

One Ethernet, two serial and four USB ports

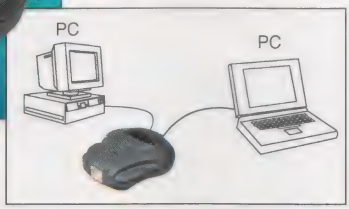
Lower prices on-line at action.com

USB PRODUCTS

BELKIN



The **Belkin USB direct Connect** provides a convenient way to connect multiple stand-alone PCs and gain the benefits of networking. Two USB computers can share programes, files, peripherals sharing equipment and more, giving users the flexibility they need.



FEATURES:

- Multi-station network solution for small business or home office.
- No external power supply needed.
- Ne network cards necessary.
- Windows 98 compatible.
- 100% Plug and Play.
- Full Lifetime Belkin Warranty.



The **USB Parallel Printer Adaptor** connects parallel printers through USB! Two, three or more printers can be used with a single PC, whilst still communicating wiht a parallel scanner, camera or storage device through the computer's parallel port. The Belkin USB port to print to any parallel printer.

FEATURES:

- connects virtually any parallel printer via USB.
- Use additional adaptors to connect additional printers.
- 100% Plug and Play.
- Windows 98 Compatible.
- Full Lifetime Belkin Warranty.



Connect SCSI peripherals to your Mac or PC with USB. The Belkin USB SCSI Adaptor allows you to take advantage of the USB capabilities of your Mac or PC to connect to new or existing SCSI storage devices. Its compact and lightweight design makes it possible for any SCSI device to become portable. Simply connect the adaptor to your SCSI device and to your Mac or PC port, install the driver and that's it.

FEATURES:

- Connect up to 7 external SCSI storage devices to your PC or Mac USB port
- Works with external SCSI storage devices.
- Fully compliant with current USB specifications.
- Includes term power. Term power gives users the ability to connect ZIP drives and other SCSI devices (that do not supply term power) to work even if its the only device in the SCSI chain.
- The package will include a DB25 adaptor and power supply.

***See page 543 for the Belkin Serial Adaptor.**

FOR MAC & PCs

DESCRIPTION	PART NO.	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
USB Direct Connect Adaptor	F5U104	49-23-55	49.00	50.25	50.20	50.15
USB Parallel Adaptor	F5U002	44-71-37	35.39	35.99	35.89	35.79
USB SCSI Adaptor with Term Power (Mac and PC)	F5U015uTPW	49-71-29	59.49	60.29	60.19	60.09

OTHER ITEMS

FOR MORE USB PRODUCTS SEE PAGES 543–549

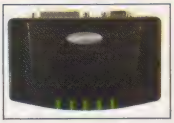
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

USB PRODUCTS

BELKIN



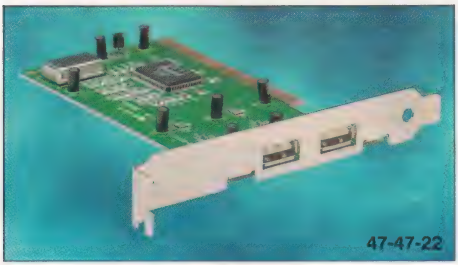






ExpressBus Plus

- Put additional ports right on your desktop to connect serial modems, digital cameras and PDAs, parallel printers and USB devices.
- Notebook PC Docking: simply plug one cable into your notebook to access your desktop printer, serial devices, keyboard, mouse and other USB devices.



Belkin BusPort

The Belkin BusPort is for PC users who want a share in the benefits of USB technology, but do not have USB ports in this system. Just drop the BusPort PCI card into your PC and you can instantly begin connecting USB peripherals.

FEATURES:

- BusPort adds two 12Mbps USB ports to any PCI-based computer.
- Provides two additional USB ports to an existing USB system.
- Easy Drop-in installation.
- 100% Plug and Play.
- Full lifetime Belkin warranty.



ExpressBus USB 7 port Hub

The ExpressBus lets you access seven USB devices simultaneously from your computer's USB port.

FEATURES:

- Access multiple USB devices simultaneously.
- Fast 12Mbps data transfer rate.
- Daisy-chain multiple USB hubs together for further expansion (up to 127 devices).
- Works with Windows 98/Win 2000 and Mac OS 8.1 or higher.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
USB VideoBus (F5U206)	49-50-25	59.49	60.29	60.19	60.09
USB ExpressBus Plus (F5U012u)	49-39-32	73.00	74.95	74.85	74.75
USB ExpressBus 7 port HUB (F5U010u)	47-47-08	59.49	59.99	59.89	59.79
USB BusPort (PCI) for Desktops	47-47-22	29.39	29.99	29.89	29.79

OTHER ITEMS
FOR MORE USB PRODUCTS SEE PAGES 543–549

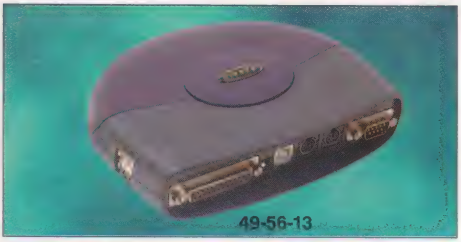
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

USB PRODUCTS

BELKIN

The **Belkin USB BusPort Mobile** is the perfect solution for notebook or Apple PowerBook users who don't have ports. When used with USB hubs such as the Belkin BusStation or 4 Port hub you can daisy-chain up to 127 USB devices to your notebook.

- Supports 32-bit CardBus PC Card Type 11 Slot.
- Compatible with Windows 98 or Mac OS 8.6 or higher.
- Instantly connect USB devices such as USB printers, modems, speakers, digital cameras, scanners and hundreds of other devices.
- Provides 2x12Mbps USB Type A ports.


49-56-13


49-96-53

WINDOWS® 98 or WINDOWS® 2000

LIFETIME WARRANTY

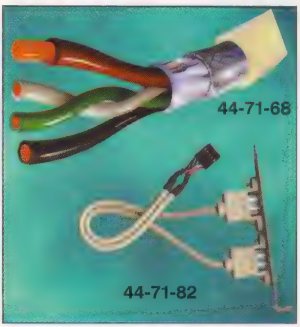
The **Belkin DockStation** for PC's and notebooks is the perfect low-cost universal docking station.

- Multifunction USB Hub. Connect up to 8 peripherals.
- Printer port supports virtually all standard and IEEE 1284 parrallel printers.
- Serial port supports digital cameras, modems, PDAs, scanners, graphic tablets and all other serial devices.
- Supports serial port speeds at up to 230Kbps.
- Four USB ports for connection to any USB device.
- Connect two PS/2 keyboards, two PS/2 mice or one of each.


44-71-44

The **USB Pro Series A-B Device Cable** is an A-to-B type used to interface a USB device to a USB host or hub. The USB **Pro Series A-A Extension Cable** is A-to-A type, used to extend cable length (within USB 5m specifications.)

- Fully rated for high speed applications
- Universal 20/28AWG construction
- Double shielded


44-71-68

44-71-82

USB Pro Series Motherboard Adaptor Cable

The dual port USB Pro Series Motherboard Cable makes it easy to connect USB devices to any USB-ready motherboard. The Motherboard Cable provides two USB "A" ports and a mounting bracket.

- Allows the user to take advantage of built-in USB capabilities of their motherboard
- Provides two USB "A" Type female receptacles
- Saves valuable PC and Notebook access
- 100% Plug and Play

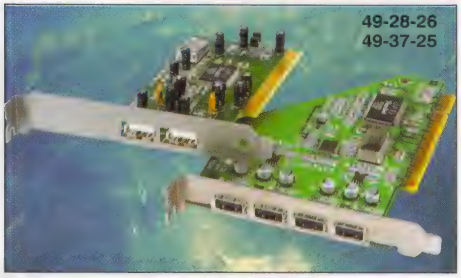
	DESCRIPTION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	USB Busport Mobile (PCMCIA to USB)	—	49-56-13	58.00	59.49	59.39	59.29
NEW	USB DockStation	—	49-96-53	100.00	◗	101.79	101.59
	USB Peripheral Cable A-B	1.8	44-71-44	8.55	8.99	8.89	8.79
	USB Peripheral Cable A-B	3.0	44-71-51	9.55	9.99	9.89	9.79
	USB Extension Cable A Male – A Female	1.8	44-71-68	9.05	9.49	9.39	9.29
	USB Extension Cable A Male – A Female	3.0	44-71-75	9.55	9.99	9.89	9.79
	USB Motherboard Adaptor Cable, 2×A Female	0.25	44-71-82	11.99	12.95	12.75	12.49

OTHER ITEMS
FOR CABLE MANAGEMENT PRODUCTS SEE PAGES 615, 616

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

USB PRODUCTS

Xircom...



2 or 4 Port USB PCI Upgrades
Xircom's 2 or 4 Port USB Upgrades is the easiest way to add USB to your PC.

- Add 2 or 4 USB ports to your PC.
- Each port delivers a full 500mA of power.
- Auto Recovery Technology if a port shuts down, it will automatically reset itself when a new device is plugged in.



4 or 7 Port USB Hub for PCs
Xircom's 4 or 7 Port USB Hub expands your PC with four additional USB ports for scanners, modems, printers, digital cameras, joysticks, etc.

- 4 or 7 additional USB ports for expandability.
- Xircom Hubs are stackable, add as many hubs as you want and attach up to 127 USB peripherals.

USB to Parallel Printer Converter (49-50-40)
Xircom USB to Parallel Printer Converter is the easiest way to hook up a parallel printer to a USB port. Free up your computer parallel port for ZIP drives, scanners, video cameras, etc. Supports IEEE 1284 compliant parallel port printers.

USB to 25-pin Serial Converter (49-23-79)
Xircom USB to Serial Converter allows you to use your serial devices such as modems, PDAs and scanners through your USB port.

USB to SCSI Converter DB25 (49-09-14)
Xircom USB to SCSI Converter allows you to connect and use SCSI devices such as Zip Drives, scanners and CD-ROMs through the USB port on your Mac or PC.

USB to 9-pin Serial Converter DB9 (49-39-57)
Xircom USB to Serial Converter allows you to use serial devices such as modems, PDAs, cameras and other serial devices through the USB port on your PC.

USB to Ethernet Converter (49-13-38)
Xircom's USB to Ethernet Converter is the simplest, fastest way to connect a computer to your network. Allows notebook users without an available PC card slot to connect to the network.

For a full range of Xircom USB products see our website at www.action.com.

ALL PRODUCTS COME WITH A XIRCOM FIX IT OR REPLACE IT WARRANTY

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Portgear USB 2 Port PCI Card	49-28-26	23.49	24.99	24.89	24.79	NEW
Portgear USB 4 Port PCI Card	49-37-25	28.00	29.99	29.89	29.79	NEW
Portgear 4 Port USB Hub	49-96-41	34.49	34.99	34.89	34.79	NEW
Portgear 7 Port USB Hub	49-71-52	46.00	47.99	47.89	47.79	NEW
Portgear USB to 36-pin Parallel Converter	49-50-40	28.49	29.99	29.89	29.79	NEW
Portgear USB to 25-pin Serial Converter	49-23-79	44.00	45.99	45.89	45.79	NEW
Portgear USB to SCSI DB25 Converter	49-09-14	44.00	45.99	45.89	45.79	NEW
Portgear USB to DB9 Serial Converter	49-39-57	38.00	39.99	39.89	39.79	NEW
Portgear USB to 10Base-T Ethernet Converter	49-13-38	38.49	39.99	39.89	39.79	NEW
Portgear 2m USB Cable	49-55-99	8.50	9.49	9.40	9.35	NEW
Portgear 5m USB Cable	49-96-42	10.99	11.99	11.95	11.90	NEW

OTHER ITEMS

FOR MORE USB PRODUCTS SEE PAGES 543–549

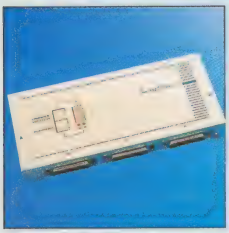
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

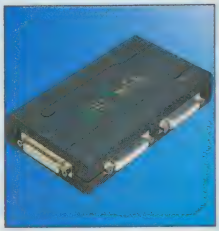
Lower prices on-line at action.com

GUIDE TO SWITCHES



Manual Switches
Manual Switches are the ideal choice for people who wish to share parallel devices – such as printers etc – when they are subject to budget constraints. The most popular Manual Switch is a 2 position, 3 port, DB25 Switch (Cat No 91-11-68). This allows the user to share either two PC's to one parallel device or one PC to two Parallel devices. Straight through cables are connected from the PC (Cat No 44-29-67) to the switch and the existing device cable is used from the switch to the device. Manual Switches are also of use for customers who have specific sharing applications that may not be covered by our range of Automatic Switches.





Automatic Serial and Parallel Switches.
Automatic Switches provide all the functionality of Manual Switches with the added ability to sense which PC is sending information and 'automatically' switch accordingly. Reversible Auto Switches allow one PC to share multiple printers. Although this reversible function is automatic the user MUST instruct the supplied software which device he wishes to connect to.



Automatic Bitronics Parallel AutoSwitches.
Bitronics AutoSwitches provide the same ease of use as the Automatic switches but have the ADDED functionality of being fully Bi-Directional. This ensures that messages such as 'out of toner', 'out of paper' etc will always be sent to the PC. They are also fully compatible with any parallel device; making them the ideal choice for parallel device sharing.



KVM Switches – Keyboard/Video/Mouse
These switches are designed with not only the SoHo user in mind but also Network Administrators. Available in 2, 4, 6, 8, 12 and 16 port options, KVM switches are perfect for anyone who needs visual access to multiple PC's. From the end-user who only needs to control a notebook and Desktop PC with only one Monitor, Keyboard and Mouse, through to the Network Administrator who needs to control 10's of PCs. Certain Units are also cascadable (using Cascade cables) to allow the control and monitoring of up to 128 different PC's. Optional adaptors also enable connection to Macintosh computers.

FOR MANUAL SWITCHES SEE PAGE 554.

FOR AUTOMATIC/ AUTOSWITCHES SEE PAGES 552–553.

FOR KVM SWITCHES SEE PAGES 560, 563.

OTHER ITEMS

FOR FULL RANGE OF SWITCHES SEE PAGES 551–563

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

BITRONICS REVERSIBLE AUTO & MANUAL DATA SWITCHES BELKIN

Now up to four computers can share a single HP® Laser or DeskJet IEEE 1284 printer

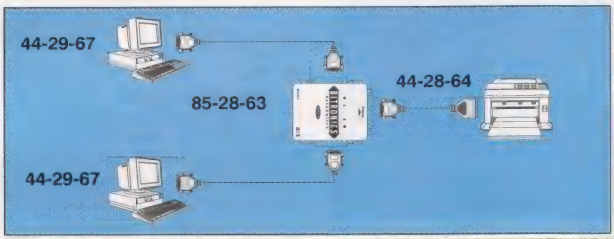
This **Bitronics AutoSwitch** takes full advantage of the features and capabilities of HP® bi-directional printers and can now send complete printer information messages such as 'paper jams', to two computers simultaneously.

It is perfect for any type of parallel printer, EZ Drives, Zip Drives, Scanners, CD-Roms, tape backups and most other parallel port devices.

Features: Manual Bitronic Reversible Switch

- Manual electronic switch safe for use with any printer.
- Reversible – can be used with 2PCs to 1 device or 1PC to 2 devices.
- **Kit includes 1.8m IEEE1284 DB25 M/M cable.**
- Lifetime warranty.







The **Belkin Bitronics AutoSwitch** is compatible with most IEEE 1284 compliant printers, including the following:

- HP® LaserJet 4, 5 and 6 series.
- HP® DeskJet 600x, 660x, 820x, 850x and 1600x series.
- Canon® BJC-600 series.
- Canon® LBP-430W.
- Epson® EPL-6600.
- Epson® Stylus IIs.
- Okidata® OL-600e and 610e.
- IBM®/Lexmark® WinWriter 150.
- Panasonic® KX-P6500.

PC TO SWITCH CABLE INCLUDED



Bitronics Autoswitch Kits

- IEEE1284 bi-directional communication support – works with any parallel port device.
- Fully Automatic.
- Reversible – can be used with 2 or 4 PCs to 1 device or 1PC to 2 or 4 devices.
- Has special File Transfer Function between 2 or 4 PC's (Only using Windows 95 or 98).
- No power required.
- **Kit includes 6 foot IEEE1284 DB25 M/M cable.**
- Lifetime warranty.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Bitronics Reversible 2 position Manual Data Switch Kit (includes PC to Switch Cable 44-29-67)	84-99-86	39.50	39.95	39.85	39.75
Bitronics Reversible 2 position Autoswitch Kit (includes 44-29-67)	45-09-59	52.69	53.95	53.75	53.50
Bitronics Reversible 4 position Autoswitch Kit (includes 44-29-67)	46-25-90	68.39	68.99	68.89	68.79
Surgemaster 4-way Strip with Telephone Fax/Modem Protection	49-50-22	20.55	20.99	20.89	20.79

OTHER ITEMS
FOR IEEE CABLES SEE PAGES 569, 570
FOR CABLE MANAGEMENT PRODUCTS SEE PAGES 615, 616

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

AUTOMATIC BITRONICS SWITCHES

BELKIN



The **Bitronics DualBus Switch** provides full IEEE 1284 bi-directional communication, including high-speed EPP and ECP modes. The Bitronics DualBus Switch allows up to 4 users to share any two parallel devices such as Zip drives, Snappy QuickCam, CCD Camera or scanners – not just printers anymore. Also a File Transfer Mode allows two PCs to share files easily.

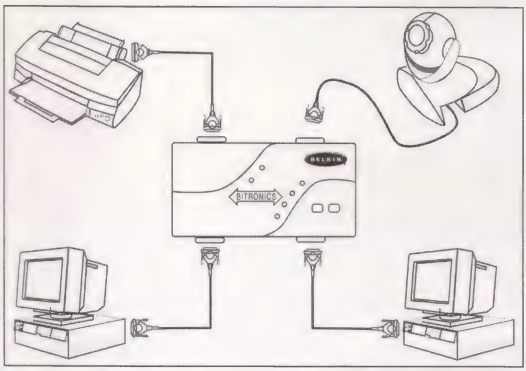
The **2-2 DB25 Automatic Bitronics** Switch allows sharing of two bi-directional parallel devices (printers, scanners etc.) from two parallel ports.

The **4-2 DB25 Automatic Bitronics Switch** allows sharing of 2 bi-directional parallel device you wish to use from each connected computer.

Includes software (Windows 3.x, 95, 98 and DOS) for point-and-click selection of a specific parallel device and special virtual-port drivers for fully automatic printer sharing and selection.

FEATURES:

- DualBus Technology for simultaneous two user sharing (see diagram).
- Fully automatic printer sharing used included virtual-port drivers (Windows 95/98).
- Supports IEEE-1284 bi-directional communication.
- **Includes two 6ft (1.8m) DB25 M/M IEEE cables.**
- Supports high-speed EPP, ECP modes.
- Has special File Transfer feature.
- LED status lights indicate PC and device selected.
- Point-and-click manual device selection using included software.
- One year warranty.



Package Content:
Bitronics 2-2 DualBus Switch or Bitronics 4-2 DualBus Switch; Two 6ft (1.8m IEEE-1284) switch cables, DB25 M/M, straight-through; Power adaptor (DC9V, 600mA); Software utility diskette; User manual and Registration card.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Belkin 2-2 DB25 Automatic DualBus Bitronic Switches	49-32-32	64.20	64.95	64.75	64.55
Belkin 4-2 DB25 Automatic DualBus Bitronic Switches	49-54-80	74.20	74.95	74.75	74.55

OTHER ITEMS

FOR IEEE CABLES SEE PAGES 569, 570
FOR CABLE MANAGEMENT PRODUCTS SEE PAGES 615, 616

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

COMPACT AUTO SWITCHES

BELKIN

Reversible AutoSwitches are capable of sharing one printer between 2, 3 or 4 PCs or can be used to connect one PC to 2, 3 or 4 printers. Includes easy-to-use Windows 95®/3.X and DOS software for printer selection. These models use straight through cables (**Cat No 44-29-67**) to connect to PCs and standard parallel printer cables on output (**Cat No 44-28-71**).

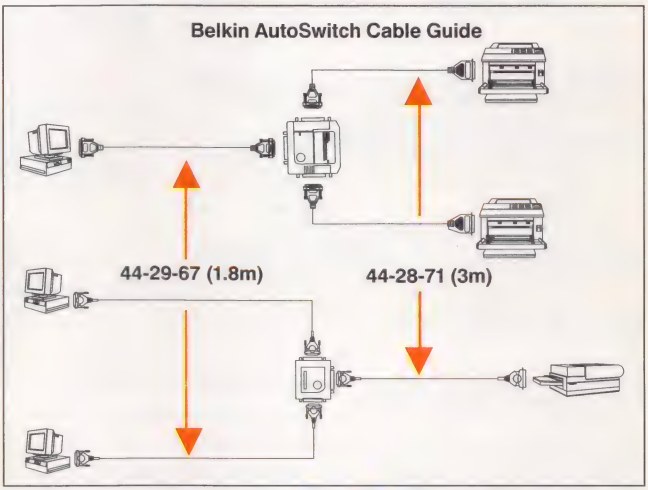


2-Port Reversible AutoSwitch
44-64-68

AutoSwitches
Compact, convenient and cost effective – a perfect combination. These flexible AutoSwitches install quickly and easily to allow 2 or 4 PCs to share a parallel printer. These models use straight through cables (**Cat No 44-29-67**) to connect to PCs and standard Parallel printer cables on output (**Cat No 44-28-71**).

CABLES NOT INCLUDED – SEE BELOW

FEATURES:
- Convenient automatic printer sharing – no software required.
- Reversible units allow use of multiple printers from one PC – printer selection software included.
- LEDs indicate active port and operation mode.
- Adjustable timeout and form feed settings.
- All DB25 female connectors.
- No power required.



DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Compact Parallel AutoSwitch, Reversible, 2 Position	44-64-68	29.39	29.99	29.89	29.79	
Compact Parallel AutoSwitch, Reversible, 4 Position	44-65-09	38.60	39.99	39.75	39.50	
Compact Parallel AutoSwitch, 2 PC's – 1 Parallel Printer	44-64-75	13.39	13.99	13.89	13.79	✂
Compact Parallel AutoSwitch, 4 PC's – 1 Parallel Printer	44-64-82	29.39	29.99	29.89	29.79	
IEEE 1284 25-way DB M-M 1.8m cable	44-29-67	13.99	14.49	14.39	14.29	✂
IEEE 1284 25-way DB M-M 36-way Centronics 3m cable	44-28-71	14.99	16.49	16.39	16.29	

OTHER ITEMS

FOR CABLES GUIDE SEE PAGE 565
FOR KVM SWITCHES SEE PAGES 560, 563

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

Lower prices on-line at action.com

MANUAL REVERSIBLE SWITCHES

BELKIN



Note:
Manual data switches are not recommended for use with some printers (eg HP). Please consult your printer's warranty information.

Application: **Connex T-Switches** allow a number of PCs to share a single printer or a single PC to share multiple printers without time consuming cable changes.
T-Switches can be used in reverse, for example, a 2-way switch can share a single printer between 2 PCs or allow a single PC to share 2 printers.

FEATURES:
- Available in 2-Way and 4-Way options.
- Cross-over option available to allow 2 PCs to share 2 printers.
- 25-way D type or Centronics port options available.
- Fully transparent.
- Rotary switches.
- Hard wired.
- Fully screened metal housing.

CABLE GUIDES*

DATATYPE – PARALLEL – T SWITCH ONLY	
25-Way D Type T-Switches	
PC to Switch	**Switch to Printer**
44-29-67 (1.8m)	44-28-64 (1.8m)
44-29-74 (3m)	44-28-71 (3m)
36-Way Centronics T-Switches	
PC to Switch	**Switch to Printer**
95-01-43 (2m)	91-04-06 (2m)
95-01-50 (3m)	91-03-96 (3m)

Male = M Female = F

CABLE GUIDES*

DATATYPE – SERIAL – T SWITCH ONLY	
25-Way D Type T-Switches	
PC to Switch	**Switch to Printer**
9-Way PC Serial Ports	95-00-26(2m)
95-01-81 (3m)	95-00-40 (3m)
25-Way PC Serial Ports	95-00-64 (5m)
95-01-98 (3m)	

*For cable prices see pages 571–573

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
2-Way T-Switch (2 in 1 out or 1 in 2 out)					
25-way D type F	91-11-68	8.55	8.99	8.89	8.79
36-way Centronics F	91-12-09	9.55	9.99	9.89	9.79
3-Way T-Switch (3 in 1 out or 1 in 3 out)					
25-way D type F	91-11-75	15.55	15.95	15.89	15.79
36-way Centronics F	91-12-16	15.55	15.95	15.89	15.79
4-Way T-Switch (4 in 1 out or 1 in 4 out)					
25-way D type F	91-11-82	15.55	15.95	15.89	15.79
36-way Centronics F	91-12-23	15.55	15.95	15.89	15.79
Crossover X-Switch (2 in 2 out)					
25-way D type F	91-11-99	18.05	18.49	18.39	18.29
36-way Centronics F	91-12-30	18.05	18.49	18.39	18.29

OTHER ITEMS
FOR PS/2 MONITOR/KEYBOARD CABLES SEE PAGES 566–568

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

KVM SWITCHES – KEYBOARD/VIDEO/MOUSE

BELKIN

The **Omnicube KVM Switches** are ideal for system administrators, engineers, programmers, graphic artists, or if you need control over multiple computers without the hassle and expense of multiple mice, keyboards and monitors.

The **Omni***Cube*™ is the smallest, most economical and user-friendly method of controlling up to four PS/2 computers from a single keyboard, video monitor and mouse console. At only 4.5" deep, the **Omni***Cube*™ even supports Macintosh computers with the **MAC Adaptor** – Cat No 87-72-02.

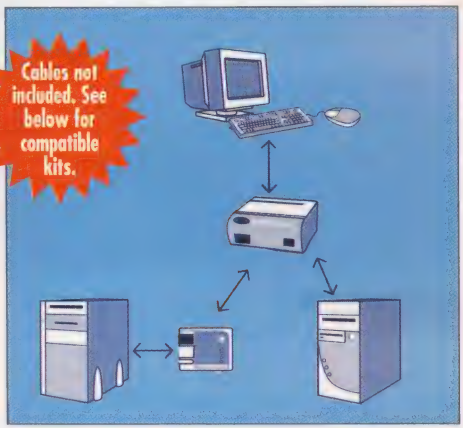
The **Omni***Cube*™ combines the most common features into a low cost and reliable enclosure, with features like 1600 × 1200 resolution, full keyboard/mouse emulation, Microsoft® Intellimouse® support.



OmniCube™

FEATURES:

- PS/2 keyboard and PS/2 mouse connectors
- Keyboard and mouse emulation
- Microsoft™ Intellimouse™ support
- 1600 × 1200 max video resolution
- Pushbutton, hot-key or AutoScan switching
- Mac Compatible with MACAdaptor (87-72-02)
- **Non Cascadable**
- Not compatible with AT systems
- Dimensions:
  2 Port: W11.4 × L11.5 × H4.4cm
  4 Port: W18.4 × L11.5 × H4.4cm

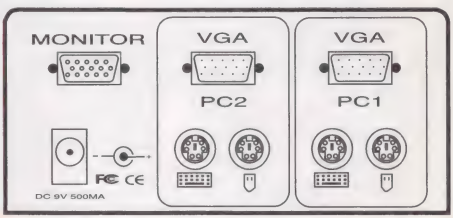


OmniCube Functional Diagram

Designed for Microsoft Windows NT Windows 98

Novell NetWare 5 POWER EDITION

LINUX linux-tested.com



OmniCube Rear View

See page 559 for contents of cable kits.

Belkin Quality one year 1 warranty Guaranteed

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Belkin 2 port PS/2 OmniCube KVM Switch	47-45-71	73.99	74.89	74.79	74.59
Belkin 4 port PS/2 OmniCube KVM Switch	47-45-88	93.99	94.89	94.69	94.49
Omniview PS/2 MACAdaptor	87-72-02	62.99	64.75	64.65	64.55
Omniview PS/2 Cable Kit	85-70-95	11.99	12.29	12.25	12.20
Omniview Sun Adaptor	49-54-81	86.30	86.95	86.85	86.75

OTHER ITEMS

FOR MONITORS SEE PAGES 298–324
FOR KEYBOARD/MONITOR CABLES & ADAPTORS SEE PAGES 566–568

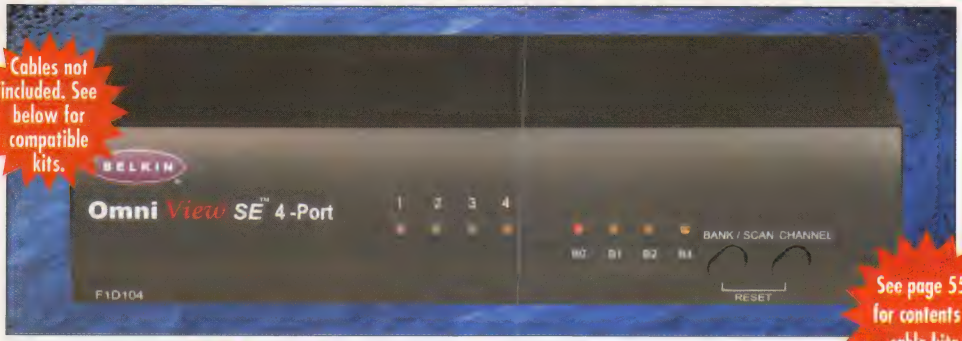
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

Lower prices on-line at action.com

KVM SWITCHES — KEYBOARD/VIDEO/MOUSE

BELKIN

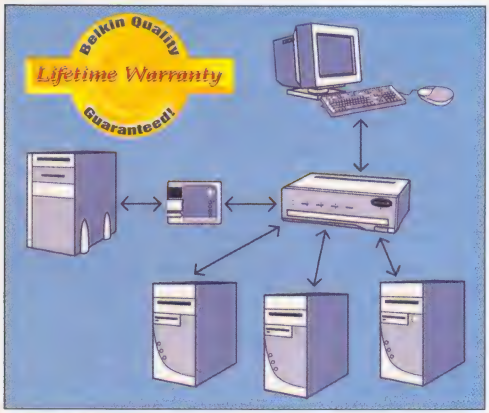
Cables not included. See below for compatible kits.



See page 559 for contents of cable kits.

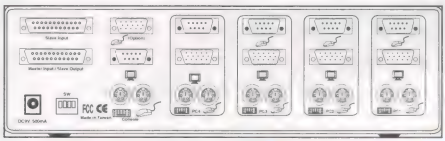
OmniView™ SE

Ideal for system administrators, engineers, programmers, graphic artists or if you simply require control over multiple computers without the hassle and expense of multiple mice, keyboards and monitors.



FEATURES:

- Supports resolutions up to 1600 × 1200
- Supports Microsoft Intellimouse
- Integrated Mouse Conversion Technology
- Standard connectors for easy cabling
- **Cascade up to 64 Computers**
- Mac Compatible with MACAdaptor (87-72-02)
- **The dedicated cascade ports frees up one extra port**
- Dimensions:
  2 Port: W23.5 × L14.6 × H5.7cm
  4 Port: W23.5 × L14.6 × H5.7cm



Designed for Microsoft Windows NT Windows 98

LINUX linux-tested.com

Novell NetWare 5

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
2 port OmniView SE PS/2	47-46-36	103.99	➧	104.99	104.79
4 port OmniView SE PS/2	47-46-67	128.99	➧	129.99	129.79
OmniView MACAdaptor PS/2	87-72-02	62.99	64.75	64.65	64.55
OmniView AT Cable Kit (Now inc AT to PS/2 Keyboard Adaptor)	85-70-88	12.49	12.99	12.95	12.90
OmniView PS/2 Cable Kit	85-70-95	11.99	12.29	12.25	12.20
OmniView Cascade Kit	47-53-43	12.14	12.99	12.89	12.79
OmniView SE Rackmount Kit (4-port PRO only)	47-53-36	29.19	29.99	29.89	29.79
OmniView Sun Adaptor	49-54-81	86.30	86.95	86.85	86.75

OTHER ITEMS

FOR MONITORS SEE PAGES 298–324
FOR KEYBOARDS & MICE SEE PAGES 279–294

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

KVM SWITCHES — KEYBOARD/VIDEO/MOUSE

BELKIN

The **OmniView™ KVM Switches** gives you Control over your PCs with advanced features you need.

- Control with ONE keyboard, ONE mouse and ONE monitor multiple computers (PC & MAC).
- Compatible with PS/2 and AT-style PCs.
- Integrated Mouse Conversion Technology.
- Supports resolutions up to 1600 × 1200.
- Can be used in conjunction with standard connector cable kits for ease of use.

Perfect for:

- Network administrators.
- Webmasters.
- Graphic Artists.
- Power Users.
- Programmers or anyone needing control over several PCs.

Belkin Quality one year 1 warranty Guaranteed!

OmniView™ PRO 4-Port and 8-Port

Keyboard Video Mouse Switches

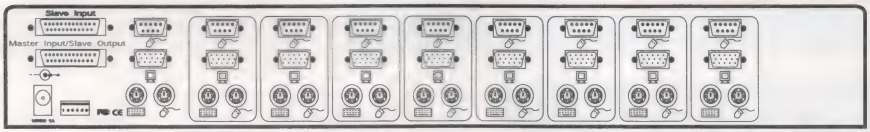
Features:

- On-Screen Display menu system
- Integrated Mouse Conversion Technology
- Supports Microsoft® Intellimouse®
- Uses standard connectors for inexpensive cabling
- Supports resolutions up to 1600 × 1200
- 19" rack mountable, 1.5 U high only (8-port only)
- **Dedicated cascade port frees up one extra port**
- Complete Keyboard/Mouse Emulation
- One year warranty
- Dimensions:
  8-Port: W18.4 × L44.5 × H6.4cm
  4-Port: W23.5 × L14.6 × H5.7cm

Cables not included. See below for compatible kits.



See page 559 for contents of cable kits.



Rearview 47-45-95

LINUX linux-tested.com

Designed for Microsoft Windows NT Windows 98

Novell NetWare 5

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Belkin OmniView PRO 8 port PS/2 KVM Switch	47-45-95	388.99	➧	389.79	389.59
Belkin OmniView PRO 4-port PS/2 KVM Switch	49-32-33	179.35	➧	179.99	179.79
OmniView AT Cable Kit (Now incl at to PS/2 Keyboard Adaptor)	85-70-88	12.49	12.99	12.95	12.90
OmniView PS/2 Cable Kit	85-70-95	11.99	12.29	12.25	12.20
OmniView PS/2 MAC Adaptor	87-72-02	62.99	64.75	64.65	64.55
OmniView Cascade Cable	47-53-43	12.14	12.99	12.89	12.79
Belkin Sun Adaptor	49-54-81	86.30	86.95	86.85	86.75
Belkin OmniView Rackmount Kit (4-port PRO only)	47-53-36	29.19	29.99	29.89	29.79

OTHER ITEMS

FOR MONITORS SEE PAGES 298–324
FOR KEYBOARD/MONITOR CABLES & ADAPTORS SEE PAGES 566–568

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

KVM SWITCHES – KEYBOARD/VIDEO/MOUSE

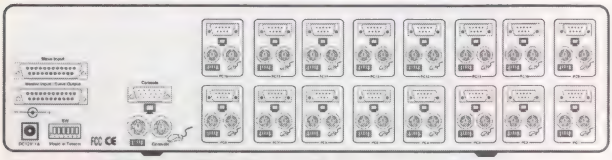
BELKIN

OmniView™ PRO 16-Port



Take control of all your servers and computers easily and efficiently with the OmniView™ PRO 16-Port KVM switch

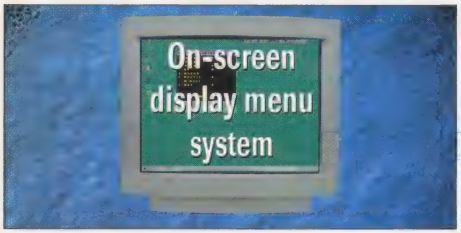
- **Efficiency.** Control sixteen servers from one keyboard, monitor and mouse with the advanced On-screen Menu System.
- **Performance.** Daisy-chain 16 units together for control over 256 computers through dedicated daisy-chain ports.
- **Simplicity.** Connect computers using standard cables.
- **Compatibility.** Certified for use with Windows® 95, 98, NT, Novell and Linux operating systems.



OmniView™ Matrix 2x8



- **Efficiency.** Control 2 – 128 computers from two locations independently.
- **Performance.** Features 1600 × 1200 VGA, On-Screen Display and PS/2 or AT Computers.
- **Simplicity.** Connect attached computers using standard cables.
- **Compatibility.** Certified for use with Windows® 95, 98, NT, Novell and Linus operating systems.



LINUX linux-tested.com

Novell NetWare 5 LAUNCH PARTNER

Designed for Microsoft Windows NT Windows 98

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
✂	Belkin OmniView Pro 16-Port PS/2 KVM Switch	49-19-57	643.99	▶	649.99	648.99
✂	Belkin OmniView MATRIX 2 × 8 PS/2 KVM Switch	49-55-68	643.99	▶	649.99	648.99
	Cascade Cable (for Matrix Switch only)	49-19-61	29.65	29.95	29.90	29.85
NEW	OmniView All-in-One Premium PS/2 High Integrity Cable 1.8m	49-71-58	13.39	13.99	13.89	13.79
NEW	OmniView All-in-One Premium PS/2 High Integrity Cable 3m	49-23-85	15.00	15.99	15.89	15.79
NEW	OmniView All-in-One Premium AT High Integrity Cable 1.8m	49-50-43	15.00	15.99	15.89	15.79

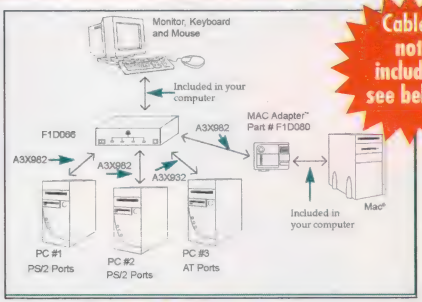
OTHER ITEMS FOR CONNECTOR GUIDE SEE PAGE 565

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

KVM SWITCHES – KEYBOARD/VIDEO/MOUSE

BELKIN





Cables not included see below

OmniView™ Classic Range

These are the Classic OmniView™ units you know and trusted over the years. However, if you are a first-time KVM-switch buyer, we recommend the new generation of OmniView™ models shown on pages 566–568.

The **OmniView Classic** is ideal for system administrators, developers, trade show representatives, or any computer user who wants control over multiple computers without having to purchase additional keyboards, monitors or mice.
N.B. Omniview Classic 6 port only works with serial connectors use cable kit Cat No 85-70-88

FEATURES:
- No software installation required.
- Works with any operating system (DOS, Windows 3.x and Windows 95, Windows 98, OS/2 etc.)
- **Cascade up to 216 CPUs.**

OmniView™ Accessories

Accessories available:

OmniView PS/2 Mac Adaptor
Allows you to connect a Mac Computer to an OmniView Classic. Cat No 85-70-95 required.

OmniView FootSwitch
Connects to the side of the OmniView Classic 4 port.

OmniView Cascade Cable Kit contains:
- One PS/2 mouse cable.
- One PC serial mouse extension cable.
- One AT keyboard cable.
- One VGA monitor extension cable.
- All cables are 1.8m.

OmniView AT Style Cable Kit contains:
- VGA monitor extension cable with thumbscrews.
- AT Style keyboard cable.
- PC serial mouse extension cable.
- AT to PS/2 keyboard adaptor.

OmniView PS/2 Cable Kit contains:
- One PS/2 keyboard/mouse cable.
- One PC serial mouse extension cable.
- One VGA monitor extension cable with thumbscrews.
- All cables are 1.8m.

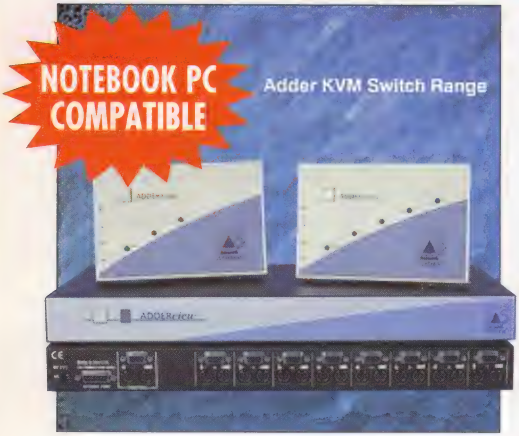
DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
OmniView Classic 2 Port	84-99-55	128.99	◗	129.99	129.75
OmniView Classic 4 Port	84-99-62	157.99	◗	158.99	158.75
OmniView Classic 6 Port (AT ONLY)	44-63-03	177.95	◗	178.99	178.75
OmniView AT Cable Kit (now incl. AT to PS/2 Keyboard Adaptor)	85-70-88	12.49	12.99	12.95	12.90
OmniView PS/2 Cable Kit	85-70-95	11.99	12.29	12.25	12.20
OmniView PS/2 Mac Adaptor	87-72-02	62.99	64.75	64.65	64.55
OmniView FootSwitch	87-72-26	22.15	22.99	22.89	22.49
OmniView Cascade Kit	44-66-26	12.19	12.99	12.79	12.59

OTHER ITEMS
FOR MONITORS SEE PAGES 298–324
FOR KEYBOARDS/MICE SEE PAGES 279–294
FOR NETWORK FURNITURE SEE PAGES 626–630

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
»Save £££'s!
»Check live stock
»Track order status

KVM SWITCHES — KEYBOARD/VIDEO/MOUSE

ADDER Technology



Adder Technology provide two **AdderView OSD KVM** switching solutions to their existing range of high specification switches.

ADDERVIEW FAMILY FEATURES:

- Self powered operation
- SmartBoot feature automatically boots all machines during power-up
- Mixed PS/2 and AT/RS232 keyboards, mice and wheel type mice supported as standard
- Notebook compatible
- High bandwidth video support — 1900 × 1200 resolution
- Mixed operating system support — including Windows, Windows NT, UNIX, DOS and OS/2.

ADDITIONAL ADDERVIEW OSD FEATURES:

- Channel selection from On-Screen menu, hotkey, mouse, front panel key or optional remote control (87-07-80).
- Compact 19″ 1U high all metal case can be desk or rack located.

The **SmartView 2 port and 4 port KVM switches** are fully featured desktop CPU switches allowing multiple PC's to be controlled and monitored from a single keyboard, monitor and mouse. SmartView's **Optimum Video Quality (OVQ),** ensures that very high resolution is maintained, even over extended cable distances.

FEATURES:

- SmartBoot feature automatically boots all machines during power-up
- OVQ circuit maintains high resolutions for extended distances of up to 30 metres – supports VGA
- Notebook compatible
- Mixed PS/2 and AT/RS232 keyboards, mice and wheel type mice supported as standard
- Unlimited cascading of multiple SmartViews



DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
AdderView 2 port KVM switch	47-47-60	168.85	▶	169.95	169.75
AdderView 4 port KVM switch	47-47-77	219.10	▶	219.95	219.75
AdderView OSD 4 port KVM switch	49-17-65	296.39	▶	299.99	297.99
AdderView OSD 8 port KVM switch	49-30-91	367.25	▶	369.99	368.99
Universal 19″ rack mount kit for OSD4/OSD8	49-53-49	42.49	44.99	44.49	43.99
SmartView 2 port KVM switch	87-07-66	243.14	▶	249.95	247.45
SmartView 4 port KVM switch	87-07-73	339.35	▶	339.95	339.75
Adder Remote control unit for SmartView & AdderView OSD only	87-07-80	42.05	43.99	43.55	43.11

OTHER ITEMS
FOR CABLE GUIDE SEE PAGE 565
FOR MONITORS SEE PAGES 295–305

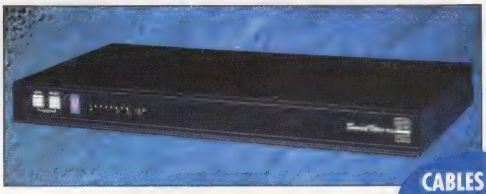
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

KVM SWITCHES — KEYBOARD/VIDEO/MOUSE

ADDER Technology

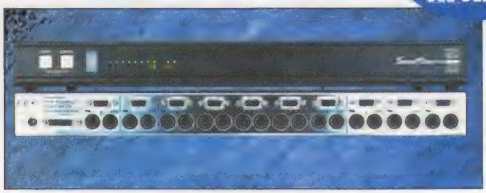
When you need to control and monitor multiple CPUs, locally or remotely, the **SmartViewPro** range is the solution to use.

SmartViewPro 4, 8, 12 and 16 port switches, can be stacked to provide support for hundreds of CPUs. With two very high performance video, keyboard and mouse control ports, allowing local and remote access, SmartView Pro alleviates the often costly process of modification for dual location access by offering this capability as standard.



SmartView Pro 8-channel switch.

CABLES NOT INCLUDED SEE BELOW



SmartView Pro front and rear view.

ALL FEATURED MODELS ON THIS PAGE NOW SUPPORT 1900×1440 VIDEO RESOLUTION AND INCLUDE RACKMOUNT KIT AND ADAPTORS



SmartViewPro Range – 4, 8, 12 and 16 port

- A choice of 4 models — all suitable for 19″ rack or desktop use
- Local and remote access for with over 50 metres distance supported between control points
- Two keyboard monitor and mouse ports for dual location access
- SmartBoot feature automatically boots all machines — including mixed type — during power up
- Channel selection from on-screen menu, keyboard, monitor, mouse, front panel key and RS232 remote control on the 4 and 8 port models.
- Stackable for one-menu easy channel selection on multi-switch networks
- **Exceptionally high video resolution of 1900×1440 now supported.**

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
SmartViewPro 4 port rack mountable switch	46-00-28	399.35	➧	399.95	399.75
SmartViewPro 8 port rack mountable switch	89-44-12	550.27	➧	569.95	564.25
SmartViewPro 12 port Rack mountable switch	47-25-66	699.35	➧	699.95	699.75
SmartViewPro 16 port Rack mountable switch	47-25-73	949.35	➧	949.95	949.75
Adder SmartViewPro 4 Cable Kit (2m) — video cables are low-loss Tri-Coax SVGA spec.	49-18-25	59.50	59.95	59.85	59.75

OTHER ITEMS

FOR NETWORKING CABLE GUIDE SEE PAGES 599
FOR MONITORS SEE PAGES 295–305
FOR KEYBOARDS & MICE SEE PAGES 279–305

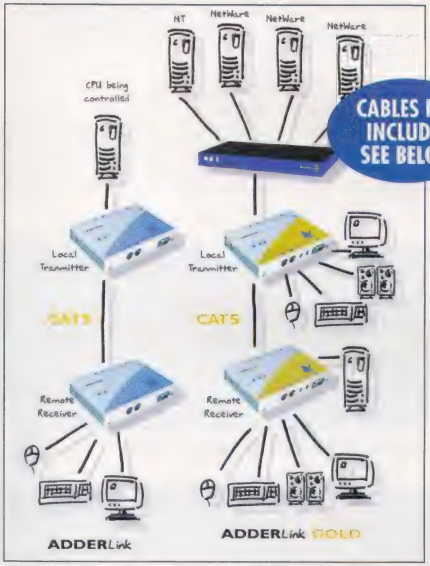
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

KVM EXTENDER

ADDER Technology





AdderLink is an easy to install KVM extender that provides a convenient method of remotely controlling a PC or KVM switch over a single CAT5 cable. Serial RS232 is also featured as standard, making it ideal for 'touch-screen' applications or remote industrial applications.
For installations requiring additional connectivity the **AdderLinkGold** provides the ideal solutions with its stereo audio support, microphone input, RS232 serial COM port and integrated video switch that allows a second workstation to be connected.

FEATURES:

- Only one CAT5 cable is required to connect your keyboard, monitor, mouse and serial RS232 device.
- Easy installation with no software.
- Works with PS/2, RS232, wheel mice and AT keyboards.
- Compatible with all major operating systems including DOS, OS/2, MS Windows, NT, UNIX, NetWare and RS6000.
- Distance of up to 200m (650ft) supported between transmitter and receiver.
- High SVGA video quality at resolution of up to 1600×1280.
- Optional Rackmount kit available.

VSCP5 Cable Kit: 49-32-71
Serial ◊ PS/2 mouse adaptor; 9DF ◊ 6 MINIDIN; Keyboard AT ◊ PS/2 adaptor; DIN5M ◊ MINIDIN6F; Tricoax Video 15 HDD M-M 2M Cable – no pin 9; 2M PS/2 PC◊ SmartView MINIDIN 6M – 6M Cable; 3M CAT5 patch cable blue

In addition the AdderLinkGold also features the following:

- Integrated KVM switch allowing a local computer to be connected at the remote location.
- Stereo audio and microphone.
- Local and remote workstation connections for added convenience.
- All metal construction – tougher than most plastic enclosures.
- LEDs show the status of connected devices.

VSCP6 Cable Kit: 49-55-07
Serial ◊ PS/2 mouse adaptor; 9DF ◊ 6 MINIDIN; Keyboard AT ◊ PS/2 adaptor; DIN5M ◊ MINIDIN6F; 2M PS/2 PC ◊ SmartView MINIDIN 6M – 6M Cable; 2M 3.5mm stereo play to play audio cable; 3M CAT5 patch cable blue.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Adder Technology AdderLink CAT5 KVM Extender kit	49-37-09	314.35	◗	314.95	314.75
Adder Technology AdderLink Gold CAT5 KVM Extender kit	49-98-55	394.35	◗	394.95	394.75
Adder Technology AdderLink (VSCP5) Cable kit	49-32-71	29.35	29.95	29.85	29.75
Adder Technology AdderLink (VSCP6) Gold Cable kit	49-55-07	59.30	59.95	59.95	59.85
Adder Technology 19" Rack Mount kit	49-95-81	44.30	44.95	44.95	44.85

OTHER ITEMS
FOR CAT5 CABLES SEE PAGES 599–614

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

KVM SWITCHES – KEYBOARD/VIDEO/MOUSE

Connex

CABLE GUIDES

MONITOR/KEYBOARD SWITCH-CABLE GUIDE		
CPU to PS/2 Switch	**CPU to AT Switch**	**Switch to Monitor/ Keyboard**
Keyboard (6 pin) 95-34-94 (2m)	Keyboard (5 pin DIN) 97-67-87 (2m)	Original keyboard cable (5-pin DIN)
Monitor 95-34-87 (2m)	Monitor 95-34-87 (2m)	Original monitor cable (HD15)

AT MONITOR, KEYBOARD, MOUSE SWITCH		
CPU to PS/2 Switch 89-47-97/ 89-48-07	**CPU to AT Switch 97-68-04/ 97-69-11**	**Monitors, Keyboards and Mice to Switch**
Keyboard (6 pin) 95-34-94 (2m)	Keyboard (5 pin DIN) 97-67-87 (2m)	Original keyboard cables
Mouse (6 pin) 95-34-94 (2m)	Mouse (9 pin DIN) 91-10-89 (2m)	**PS/2** – Original 6 pin PS/2 cable **AT** – Original 9 pin AT cable
Monitor 95-34-87 (2m)	Monitor 95-34-87 (2m)	Original cable (HD15)

Application: The **Connex monitor/keyboard switch** is available in either **PS/2** or **AT** versions and allows 2 or 4 monitors and/or keyboards to share one CPU.



FEATURES:
- Available in PS/2 and AT versions.
- Economical 2 and 4 way versions.
- Independent switching of monitor & keyboard.
- Compatible with VGA, SVGA & MultiSync monitors.
- Fitted with 5-pin DIN keyboard connector.
- Fully screen metal case.

Also available is the **Connex AT** and **PS/2 Monitor/ Keyboard & Mouse Switches** which allows 2 or 4 monitors, keyboards & mice to share a single CPU. Compatible with VGA, SVGA & MultiSync monitors this switch is available in 2 & 4 way versions.

N.B. As with all manual keyboard, monitor, mouse switches PCs must be powered down and re-booted between switching keyboard or mouse, to recognise the new connections. For auto switches which do not require this please see other KVM switches on pages 560-563.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
AT Monitor & Keyboard Switch					
AT monitor/keyboard switch 2-way	97-68-28	12.05	12.49	12.39	12.29
AT monitor/keyboard switch 4-way	97-68-35	14.05	14.49	14.39	14.29
PS/2 Monitor & Keyboard Switch					
PS/2 monitor/keyboard switch 2-way	77-72-47	14.05	14.49	14.39	14.29
PS/2 monitor/keyboard switch 4-way	77-72-54	19.05	19.49	19.39	19.29
AT Monitor/Keyboard & Mouse Switch					
AT monitor/keyboard & mouse switch 2-way	97-68-04	14.05	14.49	14.39	14.29
AT monitor/keyboard & mouse switch 4-way	97-68-11	21.05	21.49	21.39	21.29
PS/2 Monitor/Keyboard & Mouse Switch					
PS/2 monitor/keyboard & mouse switch 2-way	89-47-97	14.05	14.49	14.39	14.29

OTHER ITEMS

FOR CONNECTOR GUIDE SEE PAGE 565
FOR CABLE & CABLE PRICES SEE PAGES 565–568

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

MONITOR SHARER

BELKIN

Connecting several monitors to a single PC is finally affordable and effective with the new ExpandView video broadcast box from Belkin.



ExpandView™

Connect Several Monitors to a Single PC

Belkin Quality one year 1 warranty Guaranteed

FEATURES:

- Connect four or eight monitors to a single computer video output.
- Extend monitors to distances as much as 200 feet (60m) from the computer.
- Cascade a virtually unlimited number of monitors using multiple ExpandView boxes.
- Conserve space and save on equipment and power costs.
- Compatible with standard VGA and Super VGA analogue RGB video cards.
- Connect both monitors and a computer to the ExpandView using standard monitor extension cables **Cat No. 87-73-67.**

ExpandView™ is a boosting device that duplicates the video output from a single PC to multi monitors allowing a computer to display images on up to eight different monitors. ExpandView™ can be used with monitors as far as 200 feet away, and may be cascaded for virtually unlimited display.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Belkin 4 Port ExpandView	87-72-88	93.00	94.95	94.49	93.99
Belkin 8 Port ExpandView	87-72-95	133.49	▶	134.75	134.29
Belkin ExpandView Connector Cables	87-73-67	9.25	9.85	9.75	9.65

MONITOR SPLITTERS

Connex



These **4/8 way Monitor Splitters** provide a high quality, fast and simple solution to Image duplication. Signal enhancement is also provided together with a power screen mode to protect your monitors when the PC is switched 'off'.

FEATURES:

- Duplicates single video signal to 1 or 8 monitors.
- Gain control switch for optimum picture quality.
- Transmission distance up to 65m (210ft).
- Power save mode when PC is off.
- Compatible with SVGA, VGA and MultiSync monitors.
- Daisy chainable.

CABLE GUIDE

PC to Splitter	Splitter to Monitors
VGA/MultiSync **91-40-24** (2m)	VGA/MultiSync **91-40-24** (2m)
SVGA **91-82-64** (2m)	SVGA **91-82-64** (2m)

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
1-4 Monitor Splitter	79-58-41	87.50	89.99	89.50	89.00
1-8 Monitor Splitter	79-58-58	89.20	99.99	99.50	99.00

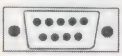
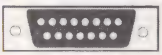
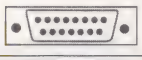
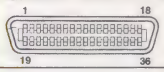
OTHER ITEMS

FOR RANGE OF MONITORS SEE PAGES 295–305
FOR KEYBOARDS & MICE SEE PAGES 279–294

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶ Save £££'s!
▶▶ Check live stock
▶▶ Track order status

GUIDE TO CONNECTORS

CONNECTOR GUIDE
COMMON APPLICATIONS

DB 9 Way Male	Serial port for IBM AT, Compaq 386/ 486 and compatible computers	
DB 9 Way Female	EGA monitor for IBM PC, XT, AT and compatible computers	
DB 15 Way Male	SVGA connector for IBM, PC, XT, AT and compatibles	
DB 15 Way Female	SVGA port for IBM PC, XT, AT and compatibles	
HD DB 15 Way Male	VGA connector for IBM PS/2 and compatibles	
HD DB 15 Way Female	VGA port for IBM PS/2 and compatibles	
DB 25 Way Male	Serial port for IBM PC, XT, PS/2 and compatible computers	
DB 25 Way Female	Parallel port for IBM PCs, XT, AT, PS/2 and compatible computers. Serial port on most printers, terminals, main frames and modems	
Centronics 36 Male	Parallel Printer connector	
H/P Centronics 36 Male	Enhanced Parallel printer connector	
5 Pin Din Male	Keyboard connector for IBM PC, XT, AT and compatible printers	
5 Pin Din Female	Keyboard port for IBM PC, XT, AT and compatible computers	
6 Pin Mini Din Male	Keyboard connector for IBM PS/2	
6 Pin Mini Din Female	Keyboard port for IBM PS/2 and compatibles	
IEC Male	Computer/peripheral AC power outlet	
IEC Female	AC power outlet	

OTHER ITEMS

FOR SWITCH GUIDE SEE PAGE 550

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

KEYBOARD/MONITOR CABLES & ADAPTORS

Connex

MONITOR EXTENSION CABLES



DB 15 Male



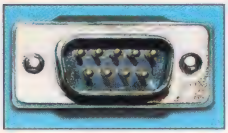
DB 15 Female



IEC Male



95-34-87



DB 9 Male



DB 9 Female



HD DB 15 Male



HD DB 15 Female

M = Male, F = Female

SAVE ££'S ON MULTIPACKS SEE PAGE 568

DESCRIPTION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
CGA/EGA Monitor, serial mouse or modem Ext DB 9-Way M to DB 9-Way F	1.8	91-10-89	9.05	9.65	9.55	9.45
CGA/EGA Monitor, serial mouse or modem Ext. DB 9-Way M to DB 9-Way F	3.0	46-29-61	12.09	12.69	12.59	12.49
VGA/SVGA Monitor Ext HD DB 15-Way M to F	1.8	91-82-64	11.99	12.69	12.59	12.49
SVGA Monitor Ext HD DB 15-Way M to HD 15-Way F (**10 Pk**)	1.8	05-07-82	93.50	94.95	94.75	94.50
VGA/SVGA Monitor ext. HD DB 15-Way M to F	3.0	46-29-78	13.79	14.79	14.69	14.49
Enhanced SVGA Monitor Ext HD DB 15-Way M to F	1.8	88-94-03	24.25	24.95	24.89	24.79
Enhanced SVGA Monitor Ext. HD DB 15-Way M to F	3.0	46-29-92	28.25	29.99	28.89	28.79
Enhanced SVGA Monitor Ext. HD DB 15-Way M to F	7.5	44-60-59	48.85	49.99	49.89	49.79
Enhanced SVGA Monitor Ext. HD DB 15-Way M to F	15.0	44-60-66	63.85	64.99	64.89	64.79
Enhanced SVGA Monitor Ext. HD DB 15-Way M to F	25.0	44-60-73	78.70	79.99	79.89	79.79
Monitor Power Extension IEC M to IEC M	1.5	91-82-71	6.15	6.59	6.49	6.39
VGA/SVGA Monitor Switch Cable HD DB 15-Way M to M	1.8	95-34-87	8.49	8.90	8.85	8.75
Enhanced SVGA Monitor Switch Cable HD DB 15-Way M to M	1.8	88-94-10	23.15	24.95	24.75	24.49
DB 15 Extension Cable DB 15 M to F	1.8	46-30-18	8.50	8.95	8.85	8.75
Joystick Extension Cable DB 15 M to F	1.8	46-30-25	8.50	8.95	8.85	8.75
Apple Monitor Cable DB 15 M to M	2.0	46-22-60	13.89	14.79	14.59	14.39

OTHER ITEMS

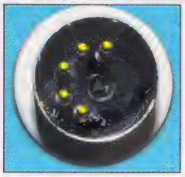
FOR CABLES & CONNECTORS GUIDE SEE PAGE 565
FOR MULTIPACKS SEE PAGE 579
FOR A RANGE OF KVM SWITCHES SEE PAGES 551–563

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

KEYBOARD/WORKSTATION CABLES & EXTENSIONS

Connex

KEYBOARD EXTENSION CABLES



5-Pin DIN Male



6-Pin Mini DIN Female



PS/2 Keyboard Extension Cable 46-30-01



5-Pin DIN Male



5-Pin DIN Female



6-Pin Mini DIN Male



6-Pin Mini DIN Female

M = Male, F = Female

Save ££'s on Multipacks See page 568

DESCRIPTION	LENGTH	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Keyboard Extension 5-Pin DIN M to 5-Pin DIN F	1.7	91-10-72	4.70	4.99	4.95	4.90
PS/2 Keyboard Ext 6-Pin Mini DIN M to 6 Mini DIN F	1.8	91-40-31	6.39	6.99	6.89	6.79
PS/2 Keyboard Ext 6-Pin Mini DIN M - F (10PK)	1.8	05-07-99	68.79	69.95	69.75	69.50
PS/2 Keyboard Ext 6-Pin Mini DIN M to 6 Mini DIN F	3.0	46-30-01	8.39	8.99	8.89	8.79
Mouse/Keyboard Cable DB9 M-M	2.0	97-67-94	9.29	9.89	9.79	9.69
PS/2 Keyboard Switch Cable 6-Pin Mini DIN M - M	1.8	95-34-94	9.55	9.99	9.89	9.79
PS/2 to 9-Way D-Type Connector	–	25-30-46	8.20	8.49	8.45	8.40
At keyboard switch cable 5pin DIN M - M	1.8	97-67-87	6.86	7.99	7.67	7.36

KEYBOARD ADAPTORS

Keyboard Adaptor 5 Pin DIN M to 6 Pin Mini DIN F	91-75-33	8.39	8.99	8.89	8.79
Keyboard Adaptor 6 Pin Mini Din M to 5 Pin DIN F	72-21-99	5.70	5.99	5.95	5.90
Keyboard Adaptor 6 Pin Mini DIN M to 5 Pin DIN (**10 Pack**)	05-08-09	52.99	54.95	54.75	54.25

WORKSTATION EXTENSION KITS

Action now provides a choice of two Workstation Extension kits which contain all the cables you need to move the CPU away from the monitor and desktop. Each kit depends on the type of keyboard connection so it is important to double check the PC's keyboard port to ensure that you order the correct kit.

Kit A contains:

- 5-Pin DIN male to 5-Pin DIN female – 3.0m keyboard extension cable.
- VGA DB 15 Way male to DB 15 Way Female – 2.0m monitor extension cable.
- Monitor power extension IEC male to IEC female – 1.5m.

Kit B contains:

- PS/2 6-Pin Mini DIN male to 6-Pin Mini DIN female – 2.0m keyboard extension cable.
- VGA DB 15 Way male to DB 15 Way Female – 2.0m monitor extension cable.
- Monitor power extension IEC male to IEC female – 1.5m.

PC Extension Kit A (5-Pin DIN keyboard, VGA monitor & power)	95-16-23	15.39	15.99	15.89	15.79
PS/2 Ext Kit B (6-Pin Mini DIN kbd, VGA monitor & power)	95-16-30	16.05	16.90	16.70	16.50

OTHER ITEMS

FOR CABLES & CONNECTORS GUIDE SEE PAGE 565
FOR CABLE MANAGEMENT PRODUCT SEE PAGES 615, 616
FOR A RANGE OF KVM SWITCHES SEE PAGES 551–563

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

KEYBOARD/MONITOR CABLES & ADAPTORS (MULTIPACKS)

Connex

MONITOR EXTENSION CABLES

Action now offer multipacks of keyboard/monitor cables and adaptors and keyboard/workstation cables that are featured on page 567 and 568 – SAVING ££s.

DESCRIPTION	LENGTH (m)	Qty	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
CGA/EGA Monitor, serial mouse or modem Ext DB 9-Way M to DB 9-Way F	1.8	5	06-17-68	39.35	39.95	39.85	39.75
CGA/EGA Monitor, serial mouse or modem Ext. DB 9-Way M to DB 9-Way F	3.0	5	06-94-81	54.35	54.95	54.85	54.75
VGA/SVGA Monitor ext. HD DB 15-Way M to F	3.0	5	06-17-25	55.76	64.95	62.35	59.86
Enhanced SVGA Monitor Ext HD DB 15-Way M to F	1.8	5	06-70-30	119.10	♦	119.95	119.85
Enhanced SVGA Monitor Ext. HD DB 15-Way M to F	3.0	5	06-22-66	243.85	♦	244.95	244.75
VGA/SVGA Monitor Switch Cable HD DB 15-Way M to M	1.8	10	06-08-41	39.35	39.95	39.85	39.75
PS/2 Keyboard Ext 6-Pin Mini DIN M to 6 Mini DIN F	3.0	5	06-27-76	39.35	39.95	39.85	39.75
Mouse/Keyboard Cable DB9 M-M	2.0	5	06-36-82	39.35	39.95	39.85	39.75
PS/2 Keyboard Switch Cable 6-Pin Mini DIN M-M	1.8	5	06-98-34	34.35	34.95	34.85	34.75
Keyboard Adaptor 5-Pin DIN M to 6-Pin Mini DIN F	—	5	06-76-58	29.35	29.95	29.85	29.75
Keyboard Adaptor 6-Pin Mini DIN M to 5-Pin DIN F	—	5	06-64-65	19.35	19.95	19.85	19.75

FLAT PANEL MONITOR CABLES

BELKIN



VESA (Video Electronics Standards Associations) board approved a new standard regarding the DFP (Digital Flat Panel) Interface Standard. This standard will allow PCs to attach the Digital Flat Panel Monitors to a new-Digital Video Port. To use this port both the monitor and the PC will need to have a DFP port.
There are two standard connectors used for DFP monitors, a 20-pin Micro-Centronics and 26-pin Micro-Centronics. It uses a 10 pair double shielded cable. The connector is a Micro-Centronics connector with latches, often referred to as a (3M) MDR-26. It is the same design as used in our IEEE 1284 'C' 36-pin connector. This cable is designed to support a distance of up to 10 metres (35 feet).

M=Male

FOR A RANGE OF FLAT PANEL MONITORS SEE PAGES 295–305

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Flat Panel Monitor Cable, 20M to 20M, 3m length	49-55-18	26.55	26.95	26.90	26.85
Flat Panel Monitor Cable, 26M to 26M, 3m length	49-71-18	34.35	34.95	34.85	34.75

OTHER ITEMS
FOR CABLES & CONNECTORS GUIDE SEE PAGE 565
FOR CABLE MANAGEMENT PRODUCT SEE PAGES 615, 616

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

GOLD SERIES IEEE 1284 PARALLEL PRINTER CABLES

BELKIN



The **Belkin Gold Series Cables** feature gold-plated connectors and contacts for maximum conductivity and error free data transmission.
The exceptional quality continues with Belkin's exclusive Kratonite™ polymer incorporated in high stress areas and the Flextec™ cable jackets provide durability and flexibility in cramped installations and are developed to support higher transmission speeds between computers and parallel printers.

Belkin's Direct Cable Connection.
Connecting this cable to two parallel ports allows two computers (running Windows 95®) to share files, folders and peripherals such as e-mail, modems and CD-ROM drives.



A



DB 25-way Male

B



36-way Centronics Male

C



DB 25-way Female

D



DB 9-way Female

M = Male, F = Female

DESCRIPTION	TYPE	LENGTH (m)	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Direct Cable Connection DB25 M-M	A-A	3.0	44-72-54	15.99	16.49	16.39	16.29
IEEE 1284 Parallel Printer Cable M-M	A-B	1.8	44-72-30	17.99	18.49	18.39	18.29
IEEE 1284 Parallel Printer Cable M-M	A-B	3.0	44-72-47	19.49	20.49	20.39	20.29
DB25 Male/Male Printer Cable	A-A	1.8	44-72-61	16.55	16.99	16.89	16.79
DB25 Male/Male Printer Cable	A-A	3.0	44-72-78	19.69	20.99	20.75	20.50
DB25 Male/Female Printer Cable	A-C	1.8	44-72-85	16.55	16.99	16.89	16.79
DB25 Male/Female Printer Cable	A-C	3.0	44-72-92	19.69	20.99	20.75	20.50
Belkin Gold AT to Modem Cable 9F–25M	D-A	3.0	44-80-71	10.75	11.99	11.75	11.50
Belkin Gold XT to Modem Cable 25F–25M	C-A	3.0	44-80-88	10.69	11.99	11.75	11.50

OTHER ITEMS

FOR CABLES & CONNECTORS GUIDE SEE PAGE 565
FOR CABLE MANAGEMENT PRODUCTS SEE PAGES 615, 616
FOR IEEE 1284 DATA SWITCHES SEE PAGES 569, 570

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

IEEE 1284 PARALLEL PRINTER CABLES

Connex

25-Way DB Male



36-Way Centronics Male



IEEE Cables are 250% Faster than regular printer cables

Major printer manufacturer's now ship printers with IEEE 1284-1994 parallel ports. This standard was developed to support higher transmission speeds between computers and parallel printers. **Connex IEEE** cable assemblies comply with the new IEEE 1284 specifications that are required to be manufactured with special low capacitance, impedance matched, twisted pair and double shielded. **This superior cable technology enables peak performance and minimises data loss.**

A



25-Way DB Male

B



36-Way Centronics Male

C



36-Way Half Pitch Centronics Male

TYPE A-B	TYPE	LENGTH (m)	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
IEEE 1284 25M-36 Centronics M	A-B	1.8	44-28-64	9.95	12.49	12.39	12.29
IEEE 1284 25M-36 Centronics M	A-B	3.0	44-28-71	14.99	16.49	16.39	16.29
IEEE 1284 25M-36 Centronics M	A-B	4.5	44-28-88	19.99	21.49	21.39	21.29
IEEE 1284 25M-36 Centronics M	A-B	7.5	44-28-95	29.99	31.49	31.39	31.29
IEEE 1284 25M-36 Centronics M	A-B	10.0	44-29-05	37.99	39.49	39.39	39.29
TYPE A-B Five Pack							
IEEE 1284 25M-36 Centronics M (**5 Pack**)	A-B	1.8	06-31-09	60.99	61.99	61.89	61.79
IEEE 1284 25M-36 Centronics M (**5 Pack**)	A-B	3.0	06-53-70	80.99	81.99	81.89	81.79
IEEE 1284 25M-36 Centronics M (**5 Pack**)	A-B	4.5	06-17-92	105.99	◗	106.95	106.85
IEEE 1284 25M-36 Centronics M (**5 Pack**)	A-B	7.5	06-31-10	151.99	◗	152.99	152.79
IEEE 1284 25M-36 Centronics M (**5 Pack**)	A-B	10.0	06-53-71	186.99	◗	187.75	187.55
TYPE A-C							
IEEE 25M-36 Half Pitch Centronics M	A-C	1.8	44-29-12	13.99	14.49	14.39	14.29
IEEE 25M-36 Half Pitch Centronics M	A-C	3.0	44-29-29	17.99	18.49	18.39	18.29
IEEE 25M-36 Half Pitch Centronics M	A-C	4.5	44-29-36	21.99	23.49	23.39	23.29
IEEE 25M-36 Half Pitch Centronics M	A-C	7.5	44-29-43	31.99	32.49	32.39	32.29
IEEE 25M-36 Half Pitch Centronics M	A-C	10.0	44-29-50	38.99	39.49	39.39	39.29
TYPE A-A							
IEEE 1284 25DB M-25DB M	A-A	1.8	44-29-67	13.99	14.49	14.39	14.29
IEEE 1284 25DB M-25DB M	A-A	3.0	44-29-74	17.99	18.49	18.39	18.29
IEEE 1284 25DB M-25DB M	A-A	4.5	44-29-81	21.99	23.49	23.39	23.29
IEEE 1284 25DB M-25DB M	A-A	7.5	44-29-98	31.99	32.49	32.39	32.29
IEEE 1284 25DB M-25DB M	A-A	10.0	44-30-07	38.99	39.49	39.39	39.29

OTHER ITEMS

FOR CABLE MANAGEMENT PRODUCTS SEE PAGES 615, 616
FOR IEEE 1284 SWITCHES SEE PAGES 569–570

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PC TO PRINTER CABLES – BRAID AND FOIL SHIELDED

Connex

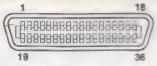
The Connex range of high quality braid and foil shielded cable.

PC TO PARALLEL PRINTER CABLES – SINGLE CABLES

APPLICATION – To connect IBM PC, XT AT and PS/2 compatible computers with DB 25 female parallel port to all Epson/HP and compatible printers with 36 way centronics female parallel ports.



DB 25-Way Male



C 36-Way Male

DESCRIPTION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
PC to Parallel Printer 25-Way M to 36-Way M	0.7	91-39-91	15.50	15.95	15.85	15.75
PC to Parallel Printer 25-Way M to 36-Way M	2	91-10-41	18.50	18.95	18.85	18.75
PC to Parallel Printer 25-Way M to 36-Way M	3	91-01-21	19.50	19.95	19.85	19.75
PC to Parallel Printer 25-Way M to 36-Way M	4.5	91-10-58	22.50	22.95	22.85	22.75
PC to Parallel Printer 25-Way M to 36-Way M	9	91-40-17	28.50	28.95	28.85	28.75
PC to Parallel Printer 25-Way M to 36-Way M	10	95-44-79	33.45	33.90	33.80	33.70

M = Male, F = Female

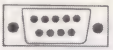
PC TO PARALLEL PRINTER CABLES – MULTI-PACKS

DESCRIPTION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
PC to Parallel Printer 25-Way M to 36-Way M (**5 pack**)	2	06-36-93	60.80	61.49	61.39	61.29
PC to Parallel Printer 25-Way M to 36-Way M (**5 pack**)	3	05-07-44	77.05	77.49	77.39	77.29

M = Male, F = Female

PC TO SERIAL PRINTER CABLES – SINGLE CABLES

APPLICATION – To connect IBM PC XT/AT and compatible computer to serial ports on Epson/HP and compatible printer/plotter.



DB 9-Way Female



DB 25-Way Male



DB 25-Way Female

DESCRIPTION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
AT to Serial Printer 9-Way F to 25-Way M	3	91-08-39	14.55	14.95	14.89	14.79
XT to Serial Printer 25-Way F to 25-Way M	3	91-07-67	9.55	9.89	9.85	9.80

M = Male, F = Female

OTHER ITEMS

FOR CABLES & CONNECTORS GUIDE SEE PAGE 565
FOR CABLE MANAGEMENT PRODUCT SEE PAGES 615, 616

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PC TO PRINTER CABLES

Connex

Entry level PC to Printer cable. Quality double foil shielded cable constructed with 26awg insulated conductor with 26awg drain wire. PVC moulded casing with finger screws.

PC TO PARALLEL PRINTER CABLES – SINGLE CABLES

APPLICATION: To connect IBM PC, XT AT and PS/2 compatible computers with DB 25 female parallel port to all Epson/HP and compatible printers with 36-way centronics female parallel ports.

All cables are DB 25-Way Male to C 36-Way Male

***Right Angle PC to Parallel Printer cable now available.**



DB 25-Way Male



C 36-Way Male

DESCRIPTION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
PC to Parallel Printer 25-Way M to 36-Way M	0.7	95-01-29	5.90	6.50	6.40	6.30
PC to Parallel Printer 25-Way M to 36-Way M	1.5	95-01-36	6.99	7.50	7.40	7.30
PC to Parallel Printer 25-Way M to 36-Way M	1.8	95-01-43	8.70	8.99	8.95	8.90
PC to Parallel Printer 25-Way M to 36-Way M	3	95-01-50	8.58	9.99	9.59	9.21
PC to Parallel Printer 25-Way M to 36-Way M	5	95-01-67	9.99	10.50	10.40	10.30
PC to Parallel Printer 25-Way M to 36-Way M	9	95-01-74	18.55	18.99	18.89	18.79
PC to Parallel Printer 25-Way M to 36-Way M*	1.8	47-09-77	8.45	8.89	8.79	8.69
PC to Parallel Printer 25-Way M to 36-Way M*	3	47-09-91	9.55	9.99	9.89	9.79

M = Male, F = Female

PC TO PARALLEL PRINTER CABLES – MULTI-PACKS

All cables are DB 25 Way Male to C 36-Way Male

DESCRIPTION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
PC to Parallel Printer 25 Way M to 36-Way M **(5 pack)**	1.8	04-83-78	41.55	41.99	41.89	41.79
PC to Parallel Printer 25-Way M to 36-Way M **(5 pack)**	3	95-47-92	43.50	43.95	43.85	43.75

M = Male, F = Female

PC TO SERIAL PRINTER CABLES – SINGLE CABLES

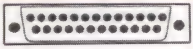
APPLICATION: To Connect IBM PC XT/AT and compatible to serial ports on Epson/HP and compatible printers/plotters.



DB 9-Way Female



DB 25-Way Female



DB 25-Way Female

DESCRIPTION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Connex AT to Serial Printer 9 Way F to 25-Way M	3	95-01-81	8.99	9.59	9.49	9.39
Connex XT to Serial Printer 25-Way F to 25-Way M	3	95-01-98	9.89	10.49	10.39	10.29

M = Male, F = Female

OTHER ITEMS

FOR CABLES & CONNECTORS GUIDE SEE PAGE 565
FOR CABLE MANAGEMENT PRODUCTS SEE PAGES 615, 616

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

UNIVERSAL CABLES

Connex

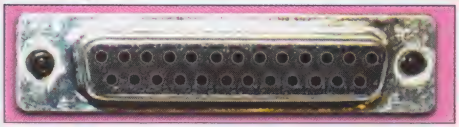
Connex produces multi-purpose Straight-Through Cables in a variety of lengths.

FEATURES:

- Suitable for either serial or parallel use.
- Fully wired pin-to-pin, for use as an extension cable.
- Fully shielded, 26awg PVC insulated conductors with 26awg drain wire surrounded by aluminium foil overlap.
- PVC tamper proof hood moulding with aluminium foil shielding.



DB 25 Way Female

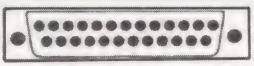


DB 25 Way Male



APPLICATION – Connex 25-pin universal cables are suitable for a variety of tasks (e.g. interfacing PCs and peripherals with manual data transfer switches or autoswitches).

INDIVIDUAL CABLES



DB 25 Way Female



DB 25 Way Male

DESCRIPTION	LENGTH (m)	M to M CAT NO	M to F CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Connex DB 25-Way D Type	1.5	95-00-02	95-00-19	9.55	9.99	9.89	9.79
Connex DB 25-Way D Type	1.8	95-00-26	95-00-33	10.55	10.99	10.89	10.79
Connex DB 25-Way D Type	3.0	95-00-40	95-00-57	11.55	11.99	11.89	11.79
Connex DB 25-Way D Type	5.0	95-00-64	95-00-71	13.55	13.99	13.89	13.79
Connex DB 25-Way D Type	10.0	95-00-88	95-00-95	17.55	17.99	17.89	17.79
Connex DB 25-Way D Type	15.0	95-01-05	95-01-12	24.55	24.99	24.89	24.79

M = Male, F = Female

MULTI-PACKS

DESCRIPTION	LENGTH (m)	M to M CAT NO	M to F CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Connex DB 25-Way D Type (**2 pack**)	1.5	06-03-56	06-03-63	18.55	18.99	18.89	18.79
Connex DB 25-Way D Type (**2 pack**)	1.8	06-03-70	06-03-87	19.55	19.99	19.89	19.79
Connex DB 25-Way D Type (**2 pack**)	3.0	06-03-94	06-04-04	20.55	20.99	20.89	20.79
Connex DB 25-Way D Type (**2 pack**)	5.0	06-04-11	06-04-28	24.55	24.99	24.89	24.79

M = Male, F = Female

OTHER ITEMS

FOR CABLES & CONNECTOR GUIDE SEE PAGE 565
FOR CABLE MANAGEMENT PRODUCTS SEE PAGES 615, 616

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CENTRONICS EXTENSION CABLES

Connex



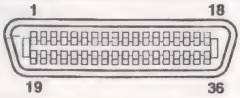
FEATURES:

- Suitable for either serial or parallel data use.
- Fully wired pin-to-pin, for use as an extension cable.
- Fully double shielded.
- PVC tamper proof hood moulding with aluminium foil shielding.

Connex

APPLICATION – Generally used when connecting a T-switch, with a Centronics port, to a parallel printer.

INDIVIDUAL CABLES



Centronics 36-Way Male

DESCRIPTION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Connex Centronics 36-Way M to M	1	91-02-48	8.79	9.39	9.29	9.19
Connex Centronics 36-Way M to M	1.8	91-04-06	10.00	10.59	10.49	10.39
Connex Centronics 36-Way M to M	3	91-03-96	13.09	13.69	13.59	13.49
Connex Centronics 36-Way M to M	5	91-10-96	19.09	19.69	19.59	19.49
Connex Centronics 36-Way M to M	9	91-39-84	21.90	22.50	22.40	22.30

M = Male, F = Female

MULTI-PACKS

DESCRIPTION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Connex Centronics 36-Way M to M (**2 pack**)	1	06-04-35	17.25	17.99	17.79	17.59
Connex Centronics 36-Way M to M (**2 pack**)	1.8	06-04-42	20.20	20.99	20.85	20.70
Connex Centronics 36-Way M to M (**2 pack**)	3	06-04-59	25.60	26.49	26.29	26.09
Connex Centronics 36-Way M to M (**2 pack**)	5	06-04-66	33.79	34.99	34.69	34.49

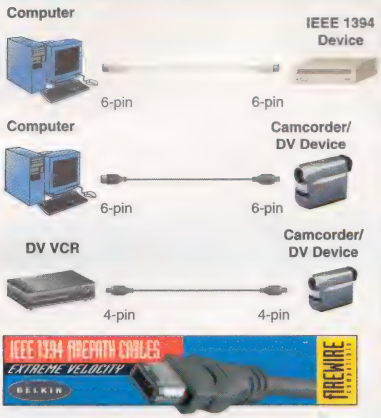
M = Male, F = Female

OTHER ITEMS
FOR CABLES & CONNECTORS GUIDE SEE PAGE 565
FOR CABLE MANAGEMENT PRODUCT SEE PAGE 615, 616

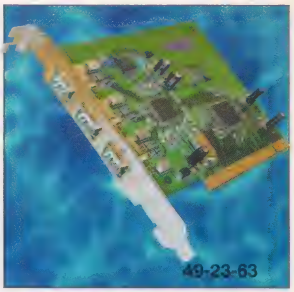
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

IEEE 1394 FIREWIRE CABLES/PC CARD

BELKIN



IEEE 1394 FirePath™ PCI Card



- Add IEEE 1394 FireWire® capabilities to your PC quickly and easily.
- Instantly connect DV camcorders, FireWire® storage drives, i.LINK™ compatible devices and other IEEE 1394 devices.
- Provides 3 additional 400Mbps FireWire® ports.
- Easy drop-in and user friendly.
- Plug-and-Play installation.
- Compatible with Windows® 98.
- Fully compliant with PCI specification over 2.1 and current IEEE 1394 specifications.
- Lifetime Warranty.

DESCRIPTION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
FireWire PCI Card (3 ports)	—	49-23-63	84.55	85.10	85.00	84.90
FirePath IEEE 1394 6-pin to 6-pin cable	1.8	48-94-01	17.55	17.99	17.89	17.79
FirePath IEEE 1394 6-pin to 6-pin cable	4.5	48-94-18	21.55	21.99	21.89	21.79
FirePath IEEE 1394 6-pin to 4-pin cable	1.8	48-94-25	25.55	25.99	25.89	25.79
FirePath IEEE 1394 6-pin to 4-pin cable	4.5	48-94-32	28.55	28.99	28.89	28.79
FirePath IEEE 1394 4-pin to 4-pin cable	1.8	48-94-49	28.55	28.99	28.89	28.79
FirePath IEEE 1394 4-pin to 4-pin cable	4.5	48-94-56	43.55	43.99	43.89	43.79

DIGITAL VIDEO

ADS

Pyro Digital Video
Professional quality Video for Desktop PCs.
Adds 3 FireWire ports to your PC.

FEATURES:

- Connects to Digital Camcorders.
- Edit Video and send out to tape.
- Produce Digital Video Movies.
- 3 Ports at 400Mbps.
- Fully IEEE 1394a compliant.
- Plug and Play.
- Control the camera via software.
- Record and preview in real time.
- Add titles, effects, voice-overs and music.
- Save as .AVI, Real Video, .ASF, MPEG & Quick time video.
- Create Video Greeting Cards and Video e-mail.
- Transfer edited video back to Digital Camcorder.



INCLUDES: 1394 PCI 3 port host card; 1394 to DV Editing Cable; U-lead Video Studio Editing Package; User manual

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Pyro Digital Internal Video (IEEE 1394) PCI BUS	49-32-38	99.99	▶	122.95	122.75

OTHER ITEMS

FOR CABLE MANAGEMENT PRODUCTS SEE PAGES 615, 616
FOR IEEE 1284 SWITCHES SEE PAGES 569, 570

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

SCSI CABLE GUIDE

Connex

External SCSI Device Interfaces.
The SCSI device itself can have a number of different interfaces. Essentially, with SCSI V still in its infancy, they can be divided into 4 different generations; SCSI I, SCSI II, SCSI III and SCSI V.

SCSI I Generation: 50 way Centronics Connector with transfer rates of up to 5Mbps on an 8-bit bus.

SCSI II Generation: Half pitch 50 way D Connector with transfer rates of normally 10Mbps, however up to 20Mbps (depending on whether 16- or 32-bit).

SCSI III Generation: Half pitch 68 way D Connector with transfer rates up to 20Mbps on 16-bit bus (32-bit use is also possible).

The standard device output is a female connector, therefore normal link cables are of male to male design.

SCSI I CABLES

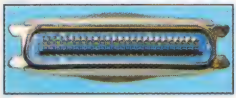
Connex

SCSI (Small Computer Systems Interface) enables you to connect your computer to a wide range of peripherals. Three advantages of SCSI are its speed, compatibility and expandibility. SCSI gets information in and out of the processor faster. The interface can become an obstruction as microprocessors get faster, hard drives get larger and high-speed becomes a necessity.



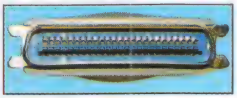
DB 25-Way Male

A



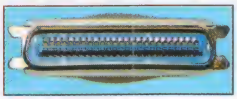
Centronics 50-Way Male
Cat No: 95-24-88
88-88-82

E



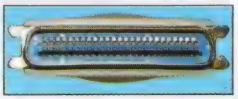
Centronics 50-Way Male

E



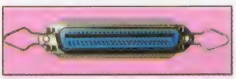
Centronics 50-Way Male
Cat No: 95-24-95
91-39-60
84-24-40

E



Centronics 50-Way Male

E



Centronics 50-Way Female
Cat No: 95-25-12

F

DESCRIPTION	PICTURE REFS	LENGTH (m)	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Systems Cable DB 25-Way M to Centronics 50-Way M	A-E	0.6	95-24-88	16.39	16.99	16.89	16.79
Systems Cable DB 25-Way M to Centronics 50-Way M	A-E	1.8	88-88-82	17.80	18.35	18.25	18.15
SCSI Interface Centronics 50-Way M to 50-Way M	E-E	1	95-24-95	17.80	18.35	18.25	18.15
SCSI Interface Centronics 50-Way M to 50-Way M	E-E	1.8	91-39-60	19.80	20.95	20.75	20.50
SCSI Interface Centronics 50-Way M to 50-Way M	E-E	3	84-24-40	22.39	22.99	22.89	22.79
Centronics 50-Way M to 50-Way F Extension Cable	E-F	1.8	95-25-12	19.60	20.49	20.29	19.99

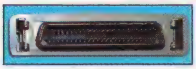
M = Male, F = Female SCSI-1 supports transfer rates of up to 5Mbps

OTHER ITEMS
FOR CABLE MANAGEMENT PRODUCTS SEE PAGES 615, 616
FOR INTERNAL CABLES SEE PAGE 581

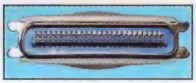
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

HALF PITCH 50-WAY 'D' PLUG SCSI II

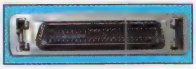
Connex


C

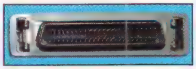
Half Pitch DB 50-Way Male


E

Centronics 50-Way Male
Cat No: 95-25-74
84-24-95


C

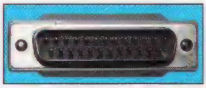
Half Pitch DB 50-Way Male


C

Half Pitch DB 50-Way Male
Cat No: 95-25-81
84-25-05


C

Half Pitch DB 50-Way Male

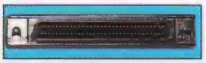

A

DB 25-Way Male
Cat No: 95-99-62
95-99-79

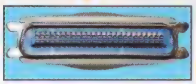
DESCRIPTION	REFS	LENGTH (m)	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Half pitch DB 50-Way M to Cent 50-Way M	C-E	1.0	95-25-74	34.39	34.99	34.89	34.79	✂
Half pitch DB 50-Way M to Centronics 50-Way M	C-E	1.8	84-24-95	42.39	42.99	42.89	42.79	✂
Half pitch DB 50-Way M to Half pitch DB 50-Way M	C-C	1.0	95-25-81	62.39	32.99	32.89	32.79	✂
Half pitch DB 50-Way M to Half pitch DB 50-Way M	C-C	1.8	84-25-05	38.39	38.99	38.89	38.79	✂
Half pitch DB 50-Way M to DB 25-Way M	C-A	1.0	95-99-62	27.39	27.99	27.89	27.79	✂
Half pitch DB 50-Way M to DB 25-Way M	C-A	1.8	95-99-79	39.39	39.99	39.89	39.79	✂

SCSI-II Supports transfer rates of up to 20Mbps.

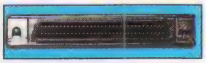
DB68 SCSI III


G

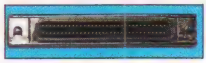
Half Pitch DB 68-Way


E

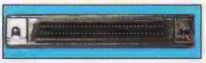
Centronics 50-Way Male
Cat No: 95-99-86
84-27-87


G

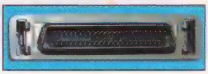
Half Pitch DB 68-Way Male


G

Half Pitch DB 68-Way Male
Cat No: 84-27-94
95-99-93


G

Half Pitch DB 68-Way Male


C

Half Pitch DB 50-Way Male
Cat No: 84-88-46
89-94-79

Half pitch 68-Way M to Centronics 50 Way M	G-E	1.0	95-99-86	34.69	35.49	35.39	35.19	
Half pitch 68-Way M to Centronics 50 Way M	G-E	1.8	84-27-87	41.39	41.99	41.89	41.79	✂
Half pitch DB 68-Way M to Half pitch DB 68-Way M	G-G	1.0	84-27-94	45.39	45.99	45.89	45.79	✂
Half pitch DB 68-Way M to Half pitch DB 68-Way M	G-G	1.8	95-99-93	44.39	44.99	44.89	44.79	✂
Half pitch 68-Way M to half pitch 50-way M	G-C	1.0	84-88-46	34.69	35.75	35.50	35.25	
Half pitch 68-Way M to half pitch 50-way M	G-C	1.8	89-94-79	41.59	42.75	42.50	42.25	

SCSI-III Supports transfer rates of up to 40Mbps.

OTHER ITEMS

FOR CABLE MANAGEMENT PRODUCTS SEE PAGES 615, 616
FOR INTERNAL CABLES SEE PAGE 581

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £E's!
Check live stock
Track order status

Lower prices on-line at action.com

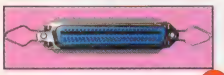
SCSI I & II GENDER CHANGERS

Connex



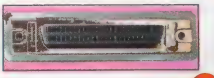
C

Half Pitch DB 50-Way Male



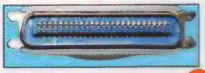
F

Centronics 50-Way Female
Cat No: 95-25-29



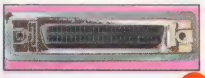
D

Half Pitch DB 50-Way Female



E

Centronics 50-Way Male
Cat No: 95-25-50



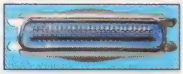
D

Half Pitch DB 50-Way Female



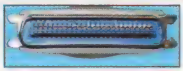
G

Half Pitch DB 68-Way
Cat No: 84-25-81



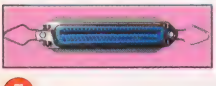
E

Centronics 50-Way Male

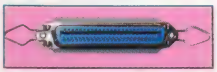


E

Centronics 50-Way Male
Cat No: 84-26-08



F Centronics 50-Way Female



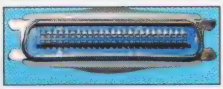
F

Centronics 50-Way Female
Cat No: 84-25-98

DESCRIPTION	PICTURE REFS	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Half pitch DB 50 Way M to Centronics 50-Way F	C-F	95-25-29	21.50	22.80	22.60	22.40
Half pitch DB 50-Way F to Centronics 50 Way M	D-E	95-25-50	22.45	25.80	25.00	24.50
Half pitch DB 50-Way F to Half pitch DB 68-Way M	D-G	84-25-81	24.60	26.80	26.00	25.50
Centronics 50-Way F to Centronics 50-Way F Gender Changer	F-F	84-25-98	13.40	14.75	14.50	14.25
Centronics 50-Way M to Centronics 50-Way M Gender Changer	E-E	84-26-08	13.39	14.75	14.50	14.25

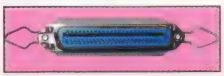
SCSI TERMINATORS

Connex



E

Centronics 50-Way Male

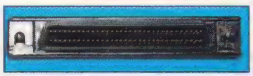


Centronics 50-Way Fem F
Cat No: 91-39-77



C

Half Pitch DB 50-Way Male
Cat No: 97-48-75



G

Half Pitch 68-Way Male
Cat No: 97-48-82

Terminator Centronics 50-Way M to F	E-F	91-39-77	16.39	16.99	16.89	16.79
Passive half pitch DB 50-Way M Terminator	C	97-48-75	26.29	26.99	26.89	26.79
Active half pitch DB 68-Way M Terminator	G	97-48-82	29.09	30.89	30.49	30.09

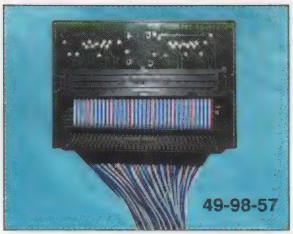
OTHER ITEMS

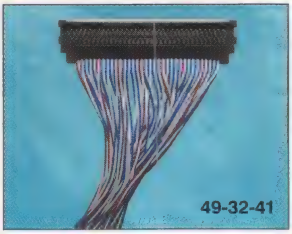
FOR CABLE MANAGEMENT PRODUCTS SEE PAGE 615, 616
FOR INTERNAL CABLES SEE PAGE 581

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ULTRA 2 SCSI LVD CABLES

BELKIN







Ultra 2 SCSI-LVD (Low Voltage Differential) and LVD are both terms for a new standard of SCSI data transmission that was recently introduced. This new SCSI transmission method is a subset of the SCSI III standard. The new standard allows for a transfer speed of 80Mbps. This is twice as fast as 'Ultra SCSI' which runs at 40Mbps. The connector type remains a standard Micro DB68 Connector. Ultra2SCSI (LVD) supports up to a maximum of 16 devices with a maximum cable length of twelve metres (40ft) total per chain.

BELKIN

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
INTERNAL LVD RIBBON CABLES					
Dual Drive LVD Paired Ribbon Cable, 3 Micro DB68 Connectors with Terminator, 80cm	49-32-41	87.00	87.95	87.75	87.55
Three Drive LVD Paired Ribbon Cable, 4 Micro DB68 Connectors, with Terminator, 100cm	49-54-85	94.00	94.95	94.75	94.55
Four Drive LVD Paired Ribbon Cable 5 Micro DB68 Connectors, with Terminator, 124cm	49-95-64	99.00	99.95	99.75	99.55
Five Drive LVD Paired Ribbon Cable, 6 Micro DB68 Connectors, with Terminator, 142cm	49-70-96	108.70	◗	109.95	109.50
Six Drive LVD Paired Ribbon Cable, 7 Micro DB68 Connectors, with Terminator, 165cm	49-23-29	118.70	◗	119.95	119.50
Seven Drive LVD Paired Ribbon Cable, 8 Micro DB68 Connectors, with Terminator, 188cm	49-50-04	128.70	◗	129.95	129.50
INTERNAL LVD TERMINATORS					
Connector Mount, Micro DB68 Female	49-13-07	53.85	54.95	54.75	54.55
IDC connector mount, mounts directly to cable	49-08-87	53.85	54.95	54.75	54.55
EXTERNAL LVD CABLES					
External SCSI III-LVD Cable, Micro DB68 Male to Micro DB68 Male, 0.9m	49-39-34	53.85	54.95	54.75	54.55
External SCSI III-LVD Cable, Micro DB68 Male to Micro DB68 Male, 1.8m	49-37-12	63.85	64.95	64.75	64.55
EXTERNAL TERMINATORS					
Micro DB68 Male External LVD Terminator	49-98-57	53.85	54.95	54.75	54.55
ULTRA ATA-66/UDMA-66 IDE					
ATA-66 Dual IDE Ribbon Cable 40 SOK/(30cm), 40 SOK (15cm/40 SOK. 45cm total)	49-32-42	9.65	9.99	9.95	9.90
ATA-66 Dual IDE Ribbon Cable 40 SOK/(45cm), 40 SOK (15cm/40 SOK. 60cm total)	49-54-86	12.45	12.95	12.85	12.75

OTHER ITEMS

FOR CONNECTOR GUIDE SEE PAGE 565

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

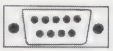
PC TO MODEM CABLES

Connex

Entry level PC to Modem cable. Quality double foil shielded cable constructed with 26awg insulated conductor with 26awg drain wire. PVC moulded casing with finger screws.

PC TO MODEM CABLES – SINGLE CABLES

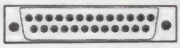
APPLICATION – to connect IBM PC XT/AT and compatibles to Hayes compatible external modems.



DB 9-Way Female



DB 25-Way Male



DB 25-Way Female

DESCRIPTION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Connex AT to Modem 9-Way F to 25-Way M	1.5	95-34-49	7.55	7.95	7.89	7.79
Connex AT to Modem 9-Way F to 25-Way M	3.0	95-02-08	9.45	9.99	9.89	9.79
Connex XT to Modem 25-Way F to 25-Way M	1.5	95-34-56	7.55	7.99	7.89	7.79
Connex XT to Modem 25-Way F to 25-Way M	3.0	95-02-15	9.55	9.99	9.89	9.79

M = Male, F = Female

PC TO MODEM CABLES – MULTI-PACKS

DESCRIPTION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
AT to Modem 9-Way F to 25-Way M (**5 pack**)	1.5	05-07-20	28.40	28.89	28.79	28.69
AT to Modem 9-Way F to 25-Way M (**5 pack**)	3.0	05-07-37	38.40	38.85	38.75	38.65

M = Male, F = Female

HIGH QUALITY PC TO MODEM CABLES – SINGLE CABLES

High quality braid/foil shielded cables.

DESCRIPTION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Connex AT to Modem 9-Way F to 25-Way M	1.8	91-43-54	14.59	15.95	15.75	15.49
Connex XT to Modem 25-Way F to 25-Way M	3.0	91-08-60	15.60	16.49	16.29	16.09

M = Male, F = Female

HIGH SPECIFICATION INTERNET MODEM CABLE

Belkin's new Internet Modem Cable maintains signal integrity up to 10 times stronger than a standard phone cable, with up to 5 times better noise reduction. This cable is constructed to support data speeds of up to 100Mbits per second. Other features include; 24K gold plated contacts, Flextec PVC rubberised cable jacket with snagless strain relief, 100% modem compatibilty and a lifetime warranty.

DESCRIPTION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
High Speed Internet Modem Cable	2.1	46-05-16	6.35	6.95	6.85	6.75
High Speed Internet Modem Cable	4.5	46-05-23	8.70	8.99	8.95	8.90
High Speed Internet Modem Cable	9.0	46-05-30	12.39	12.99	12.89	12.79

OTHER ITEMS

FOR CABLES & CONNECTORS GUIDE SEE PAGE 565
FOR CABLE MANAGEMENT PRODUCTS SEE PAGES 615, 616

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PC INTERNAL CABLES

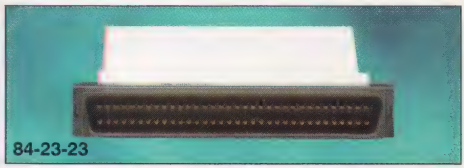
Connex

APPLICATION: To help with system upgrades and expansions with additional devices such as disk drives, tape streamers, CD-ROMs etc.


84-22-75


84-22-51


84-22-99


84-23-23

INTERNAL FLOPPY DRIVE CABLES

DESCRIPTION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Power Splitter Cable – Y Splitter Cable 5¼"	0.18	84-22-51	4.70	4.99	4.95	4.90
Universal FDD Cable (5 connector) – 34-Way Edge/ Card Edge Connector	0.62	84-22-68	7.70	7.99	7.95	7.90

INTERNAL IDE DRIVE

Single IDE Drive (2 connector) 40-Way IDE Edge Connector	0.46	84-22-75	4.70	4.99	4.95	4.90
Dual IDE Drive (3 connector) 40-Way IDE Edge Connector	0.48	84-22-82	8.65	8.95	8.90	8.85

New ATAS Internal IDE Drive cables support the new ATA66 (66MB/s) drives. They are also backwardly compatible with existing 33MB/s drives which will benefit from increased read/write speeds of approximately 50%.

ATAS Dual IDE ATA66 device (3 connector) cable	0.45	46-05-09	12.00	12.95	12.75	12.49
ATAS Dual IDE ATA66 device (3 connector) cable	0.65	45-22-25	12.39	12.99	12.89	12.79

SCSI I/II INTERNAL CABLES

2 Device (3 connector) 50-Way IDE Edge Connector	0.75	84-22-99	8.35	8.95	8.85	8.75
4 Device (5 connector) 50-Way IDE Edge Connector	1.15	84-23-09	16.75	17.95	17.75	17.50
7 Device (8 connector) 50-Way IDE Edge Connector	1.75	84-23-16	28.10	29.90	29.75	29.25

SCSI III INTERNAL CABLES

2 Device (3 connector) 68 Half Pitch D Connector	0.90	84-23-23	36.00	37.85	37.50	37.25
3 Device (4 connector) 68 Half Pitch D Connector	1.15	84-23-30	43.55	45.85	45.50	44.50
4 Device (5 connector) 68 Half Pitch D Connector	1.4	84-23-47	46.85	49.85	49.50	48.50

The **Serial Transfer Cable** is similar to **Null Modem** cable but has the option of either a 9 or 25-way D socket at each end of the cable.

Serial 9 & 25-Way DB F to 9 & 25-Way DB F File Transfer Cable	1.8	91-83-29	13.65	14.99	14.89	14.79

OTHER ITEMS

FOR CABLES & CONNECTORS GUIDE SEE PAGE 565
FOR CABLE MANAGEMENT SEE PAGES 615, 616

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

MISCELLANEOUS CABLES AND ADAPTORS

Connex



DB 25-Way Female



DB 9-Way Female

M = Male, F = Female

PC TO PC CABLES

DESCRIPTION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Connex PC AT to PC AT 9-Way F to 9-Way F	3.0	95-02-22	8.05	8.99	8.89	8.79
Connex PC XT/AT to PC XT 9-Way F and 25-Way F to 9-Way F and 25-Way F Hydra Parallel/Serial file transfer cable (Laplink)	3.0	95-02-39	8.70	9.99	9.79	9.69

PARALLEL FILE TRANSFER CABLES

DESCRIPTION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Parallel 25D Male to 25D Male compatible (with Win 95/98 Direct Cable Connect)	3	44-37-22	8.20	9.40	9.20	9.00

APPLE PRINTER CABLES

DESCRIPTION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Mini 8-Pin DIN M to Mini 8 Pin Din M	1.8	44-37-46	9.30	9.89	9.79	9.69
Mini 8-Pin DIN M to Mini 8 Pin Din M	3.0	44-81-12	9.95	10.89	10.69	10.59

CD-ROM AUDIO CABLE

DESCRIPTION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Universal MPC-2 CD-ROM Audio Cable	0.6	85-76-93	5.95	6.95	6.85	6.75

Suitable for most brands of CD-ROM e.g. Panasonic, Mitsumi, Sony, NEC and Toshiba

SCSI ADAPTOR

DESCRIPTION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
50 Centronics Female to Half Pitch 68D Male	—	44-37-60	15.95	16.95	16.89	16.79

SCSI TO SCSI III CABLES

DESCRIPTION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
25D M to Half Pitch 68D M	1.0	44-37-77	28.70	29.95	29.79	29.49
25D M to Half Pitch 68D M	1.8	44-37-84	47.85	49.95	49.69	49.29

APPLE MODEM CABLE

Connex

DESCRIPTION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Connex Mini 8-Pin DIN M to DB25 Hayes Modem	1.5	44-36-29	7.30	7.89	7.79	7.69

OTHER ITEMS

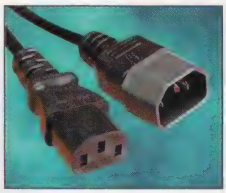
FOR CABLES & CONNECTORS GUIDE SEE PAGE 565
FOR CABLE MANAGEMENT PRODUCTS SEE PAGES 615, 616

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MAINS CABLES

Connex

Connex cables are built to the highest standards. The mains plug to IEC22 are 'power-up' cables. One end is a fused, moulded mains plug – and the other is a IEC22 female connection.
Connex IEC22 extension cables are used to extend existing mains cables. They have a IEC22 male at one end and a IEC22 female at the other. All are BS approved.







Male



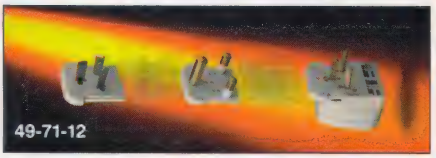
Female

DESCRIPTION/GENDER	LENGTH (m)	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Mains Plug to IEC–F	0.5	46-13-33	4.70	4.99	4.95	4.90
Mains Plug to IEC–F	1.8	91-11-20	5.20	5.49	5.45	5.40
Mains Plug to IEC-F (**10 pack**)	1.8	05-08-16	46.89	48.95	48.49	47.99
Mains Plug to IEC-F	3	46-13-40	5.65	6.95	6.15	6.00
Mains Plug to IEC-F	6	46-13-57	8.89	9.49	9.39	9.29
IEC M-F Mains Cable Extension	0.5	46-13-64	4.70	4.99	4.95	4.90
IEC M-F Mains Cable Extension	1.8	91-29-54	6.35	6.95	6.85	6.75
IEC M-F Mains Cable Extension	3	91-61-63	8.54	8.99	8.89	8.79
IEC M-F Mains Cable Extension	6	46-13-71	9.55	9.99	9.89	9.79
NOTEBOOK MAINS CABLES						
Figure 8 Socket – 5 Amp UK Mains Plug	2	46-13-88	5.69	6.25	6.15	6.05
Figure 8 Socket – European Shuko 2 pin plug	2	46-13-95	6.00	6.95	6.75	6.50
OVERSEAS MAINS CABLES						
European 90° Shuko 2 pin mains plug	2	46-14-36	5.50	5.95	5.85	5.75
US Mains Cable (SVT 3/18 AWG Cable)	2	46-14-43	5.66	6.50	6.25	6.00
MAINS TRAILER SOCKETS (ULTRASLIM TRAILER SOCKETS ARE APPROVED TO BSI363)						
4 way 13 Amp mains trailer socket	2	45-11-78	7.35	7.95	7.85	7.75
4 way 13 Amp mains trailer socket	5	46-14-05	10.50	11.50	11.25	11.00

MODULAR POWER ADAPTOR KIT

AVRO PACIFIC

Modular Power Adaptor Kit with Built-in Surge Protection
Safely connect your valuable electrical equipment world-wide.
- Safety shutter for maximum protection.
- Built-in surge protector.
- Modular inserts available **covering 249 countries**.
- Unique compactworld patented design.



DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Avro Pacific Modular Power Adaptor Kit with built-in surge	49-71-12	24.35	24.95	24.85	24.75

OTHER ITEMS *FOR CONNECTION GUIDE SEE PAGE 565*

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

SURGE PROTECTION

BELKIN



Home Office Grade

Our SurgeMaster™ Home/Office Grade has been designed to protect entry level computers, dot matrix printers, personal copiers and all other sensitive electronics in the home or office. Home/Office models offer a maximum spike amperage of 27,000 Amps, Telephone/Fax/Modem protection, surge protected and earthed indicators, and Connected Equipment Warranties up to £10,000. The MasterCube™ is a single-outlet wall mount unit with Telephone/Fax/Modem protection for notebook computers and cordless phones.

Up to £10,000
Connected Equipment Warranty
Belkin will repair or replace for the life of the product, any properly connected equipment that has been damaged by an AC surge (including lightning strikes).

Cat No	Manufacturers Part No.	Description	Cord Length	Joule	Max. Amp Rating	Sockets	Phone Jack	Connected Equipment Warranty
	Home Office Grade							
49-96-02	F5C195u	1 Way Surgemaster	Wall	720	27,000	1	—	£6000
49-19-06	F5C195uTEL	1 Way Surgemaster, (2×Telephone, Fax & Modem line protection)	Wall	824	27,000	1	2	£6000
49-23-52	F5C204u2	4 Way Surgemaster	2m	480	18,000	4	—	£3000
49-50-22	F5C204u2-TEL	4 Way Surgemaster, (2×Telephone, Fax & Modem line protection)	2m	480+104	18,000	4	2	£3000
49-13-21	F5C204u4-TEL	4 Way Surgemaster, (2×Telephone, Fax & Modem line protection)	4m	480+104	18,000	4	2	£3000
49-98-60	F5C205u2	5 Way Surgemaster	2m	720	27,000	5	—	£10000
49-55-33	F5C205u2-TEL	5 Way Surgemaster, (2×Telephone, Fax & Modem line protection)	2m	720+104	27,000	5	2	£10000
49-76-80	F5C205u4-TEL	5 Way Surgemaster, (2×Telephone, Fax & Modem line protection)	4m	720+104	27,000	5	2	£10000

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
HOME OFFICE GRADE					
1 Way Surgemaster	49-96-02	7.20	7.65	7.55	7.45
1 Way Surgemaster	49-19-06	10.50	10.99	10.89	10.79
4 Way Surgemaster	49-23-52	13.90	14.45	14.35	14.25
4 Way Surgemaster	49-50-22	20.55	20.99	20.89	20.79
4 Way Surgemaster	49-13-21	24.50	24.95	24.85	24.75
5 Way Surgemaster	49-98-60	16.50	16.95	16.85	16.75
5 Way Surgemaster	49-55-33	25.05	25.50	25.40	25.30
5 Way Surgemaster	49-76-80	28.55	28.99	28.89	28.79

OTHER ITEMS
FOR PCs & ACCESSORIES SEE PAGES 50–185
FOR UPS PROTECTION SEE PAGES 640–647

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

SURGE PROTECTION

BELKIN

Superior Grade

Sensitive Pentium® II computers, audio/video equipment and office equipment need extra protection. Don't let a surge of electricity unnecessarily damage your critical files or equipment. Belkin Superior Grade surge protectors have been designed for mid-range computers, small office fax machines, office copiers and other sensitive equipment.



Cat No	Part No.	Description	Cord Length	Joule	Max. Amp Rating	Sockets	Phone Jack	Connected Equipment Warranty
	Superior Grade							
49-64-78	F5C100u	Under Monitor Flat-bed 5 Way Surgemaster, (2×Telephone, Fax & Modem line protection)	2m	1281	33,000	5	2	£20000
49-76-81	F5C206u2-TEL3	6 Way Surgemaster, (3×Telephone, Fax & Modem line protection)	2m	1080+104	33,000	6	3	£20000
49-78-10	F5C206u4-TEL3	6 Way Surgemaster, (3×Telephone, Fax & Modem line protection)	4m	1080+104	33,000	6	3	£20000
49-82-39	F5C206u2AV-TEL3	6 Way Surgemaster, (3×Telephone, Fax & Modem, Television & Satelite line protection)	2m	1080+104	33,000	6	3	£20000

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
SUPERIOR GRADE						
Under Monitor Flatbed 5 Way Surgemaster	49-64-78	40.99	41.99	41.89	41.79	✂
6 Way Surgemaster	49-76-81	27.99	28.99	28.89	28.79	✂
6 Way Surgemaster	49-78-10	30.99	31.99	31.89	31.79	✂
6 Way Surgemaster	49-82-39	35.99	36.95	36.85	36.75	✂

Belkin Quality Lifetime Warranty Guaranteed!

OTHER ITEMS
FOR PCs & ACCESSORIES SEE PAGES 50–185
FOR UPS PROTECTION SEE PAGES 640–647

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

SURGE PROTECTION

BELKIN

Maximum Grade

Sensitive Pentium® III computers, high-end audio/video and critical office equipment need maximum protection. Belkin Maximum Grade Series surge protectors provide the best protection for your needs. Maximum Grade units offer a maximum spike amperage of 39.000 Amps. Telephone/Fax/Modem protection with a built in telephone splitter to protect two devices, thermal fuses for added safety, BlockSpace™, surge-protected and earthed indicators, EMI/RFI filtration, reusable safety caps, and a £30,000 Connected Equipment Warranty. The SurgeMaster II™ Multimedia unit offers both coax/aerial protection and Telephone/Fax/Modem protection for Satellite Receivers, WebTV® and Home Cinema Systems.

FROM ONLY £31.99+VAT ONLINE



Up to £30,000
Connected Equipment Warranty
Belkin will repair or replace for the life of the product, any properly connected equipment that has been damaged by an AC surge (including lightning strikes).

FEATURES:
- Maximum Spike Amperage: 39,000 Amps.
- 8 Surge Protected Sockets.
- Child Safety Shutters.
- Telephone/Fax/Modem Protection.
- 2m Heavy-Duty Cord.
- 1.8m Telephone Cord Included.
- 1.8m Coax Cable Included (F5C208u2AV-TEL3).
- EMI/EFI Filtration.
- Thermal Fuse.
- Lifetime Product Warranty.

Cat No	Part No.	Description	Cord Length	Joule	Max. Amp Rating	Sockets	Phone Jack	Connected Equipment Warranty
	Maximum Grade							
49-15-29	F5C208u2AV-TEL3	8 Way Surgemaster, (3 × Telephone, Fax & Modem line protection)	2m	1440+104	39,000	8	3	£30000
49-62-63	F5C208u4AV-TEL3	8 Way Surgemaster, (3 × Telephone, Fax & Modem line protection)	4m	1440+104	39,000	8	3	£30000
49-34-74	F5C208u2AV-TEL3	8 Way Surgemaster, (3 × Telephone, Fax & Modem, Television & Satelite line protection)	2m	1440+104	39,000	8	3	£30000

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
MAXIMUM GRADE					
8 Way SurgeMaster	49-15-29	31.99	32.95	32.85	32.75
8 Way SurgeMaster	49-62-63	34.99	35.99	35.89	35.79
8 Way SurgeMaster	49-34-74	37.99	38.95	38.85	38.75

OTHER ITEMS
FOR PCs & ACCESSORIES SEE PAGES 50–185
FOR UPS PROTECTION SEE PAGES 640–647

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LINE INTERACTIVE UPS

BELKIN

BELKIN REGULATOR PRO GOLD SERIES



LINE INTERACTIVE UNINTERRUPTIBLE POWER SUPPLIES

The Regulator Pro Gold Series UPS with Automatic Voltage Regulation provides surge protection and battery support to your electronic sensitive devices. The Regulator Pro UPS monitors the input power and the AVR regulates any voltage or frequency variations to maintain a clean and consistent power output. Should there be a total loss of power, the line interative UPS will support your PC for up to 41 minutes and gracefully shut down all your applications before powering down your PC.

DATA RECOVERY WARRANTY

Your computers hard drive is vulnerable to damaging effects caused by power failures. Belkin protects against this threat of lost data by providing professional data recovery services at absolutely NO COST.

FEATURES

- Automatic Voltage Regulation (AVR).
- Data Recovery Warranty.
- Connected Equipment Warranty up to £60,000.
- 4 Full Time Surge Protected Outlets.
- 4 Full Time Battery Back-up and Surge Protected Outlets.
- Telephone/Fax/Modem/ Network Surge Protection.
- Hot Swappable User Replaceable Batteries.
- Intelligent Sentry Bulldog Shutdown Management Software for Windows® 95, Windows® 98, Windows® NT V4 or higher and Windows® 2000.

Model	Regulator Pro Gold Series 325	Regulator Pro Gold Series 425	Regulator Pro Gold Series 525	Regulator Pro Gold Series 625
UPS Type	Line-Interactive with Automatic Voltage Regulation (AVR)			
VA Rating	325VA	425VA	525VA	625VA
Suggested Application	486 Computers w/15" Monitors	Pentium/Cyrix MII/Celeron Computers w/15" Monitors	Pentium/Cyrix MII/Celeron Computers w/17" Monitors or larger Pentium II/AMD K6-2 w/15" Monitors	Pentium II/ADM K6 2/AMD K6-3/Pentium III/Power Macintosh Computers w/17" Monitors or larger
Back-up Time	Up to 17 mins	Up to 24 mins	Up to 32 mins	Up to 41 mins
Battery Life	Typically 3-6 years			
Output Sockets	4 × Surge + 4 × Battery and Surge Protected			
Data Recovery Warranty	Standard on all models			
Connected Equipment Warranty	Belkin 2 year replacement warranty			
Dimensions (W × D × H)	156 × 215 × 222mm			
Weight	6.5kg	7.3kg		

DESCRIPTION	CAT NO	Web Price	PRICE EACH (£) (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Regulator Pro Gold Series 325VA with AVR, CEW £30,000	49-56-05	62.00	65.00	64.50	64.00	NEW
Regulator Pro Gold Series 425VA with AVR, CEW £40,000	49-96-48	77.00	80.00	79.50	79.00	NEW
Regulator Pro Gold Series 525VA with AVR, CEW £50,000	49-71-55	92.00	95.00	94.50	94.00	NEW
Regulator Pro Gold Series 625VA with AVR, CEW £60,000	49-23-82	107.00	◗	109.50	109.00	NEW

OTHER ITEMS

FOR UPS PROTECTION SEE PAGES 640–647
FOR SURGE PROTECTION SEE PAGE 584–588

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

SURGE PROTECTION

VOLTEX ELECTRONICS LTD APC AMERICAN POWER CONVERSION

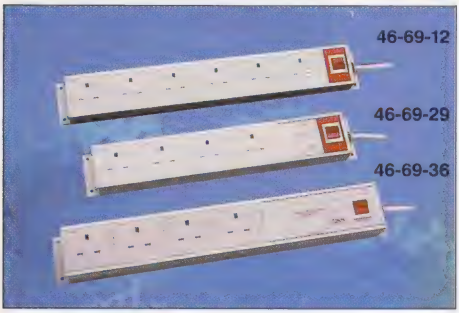
These three Voltex products (below) all feature 5 sockets, 2m cable, 13amp moulded plug and extruded aluminium case.



POWER DISTRIBUTION
For IT & Medical Appliances.

SURGE PROTECTION
Safeguard against surges.

SURGE PROTECTION AND FILTER
General purpose extension socket.



Voltex individually fused Surge protection sockets.
Each socket is **individually fused** at 3.15amps to meet the requirements of BS6396 Electrical Systems in Office furniture.

Top – Power Distribution **46-69-12**
Middle – Surge Protection **46-69-29**
Bottom – Surge Protection and filter **46-69-36**

INDIVIDUALLY FUSED SOCKETS BS6396 COMPLIANT



APC SURGE ARREST PRO4.K
FEATURES:
- All steel chassis
- Spike and surge suppression up to 13,000amp
- Supplied with 1.8m mains cable
- Less than 5% let-through voltage
- EMI/RFI noise filtering
- 3 year warranty

DESCRIPTION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Power Distribution – **5 sockets**	**2.0**	89-13-05	19.20	19.99	19.89	19.79
Surge Protection – **5 sockets**	**2.0**	89-13-12	23.90	24.99	24.80	24.50
Surge Protection and Filter – **5 sockets**	**2.0**	89-13-29	38.90	39.99	39.85	39.40
Power Distribution (fused) – **6 sockets**	**2.0**	46-69-12	23.65	24.99	24.79	24.39
Surge Protection (fused) – **4 sockets**	**2.0**	46-69-29	33.55	34.99	34.79	34.39
Surge Protection and filter (fused) – **4 sockets**	**2.0**	46-69-36	53.55	54.99	54.69	54.29
APC Surge Arrest Pro 4.K – **4 sockets**	—	87-11-67	43.30	44.50	44.20	43.80

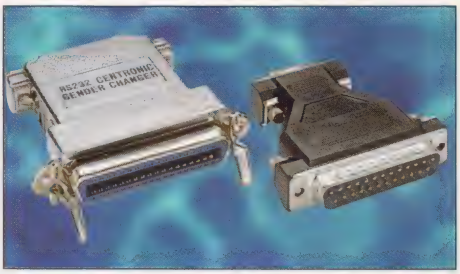
OTHER ITEMS
FOR NETWORKING PRODUCT INDEX SEE PAGES 638, 639

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PC ADAPTORS

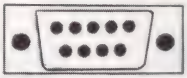
Connex

PC Gender Changers/Adaptors
Turn a 9-pin serial AT port into a 25-pin port using the compact AT adaptor. The **parallel port adaptor** (Cat. No. 73-28-28) allows a Centronics extension cable to be used instead of a PC-printer cable.





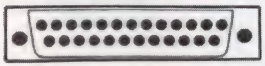
DB 9-Way Male



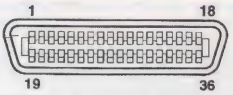
DB 9-Way Female



DB 25-Way Male



DB 25-Way Female



36-Way Centronic Female

M = Male, F = Female

TYPE	GENDER	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Connex AT Adaptor	9 M–25 F	91-60-53	5.55	5.99	5.89	5.79
Connex AT Adaptor	9 M–25 M	91-60-60	5.55	5.99	5.89	5.79
Connex AT Adaptor	9 F–25 F	91-60-77	5.55	5.99	5.89	5.79
Connex AT Adaptor	9 F–25 M	91-34-41	5.55	5.99	5.89	5.79
Connex Parallel Port Adaptor	25 M–36 F	73-28-28	9.55	9.99	9.89	9.79
Null Modem Adaptor Block	DB25 M-F	46-22-91	8.55	8.99	8.89	8.79

RS232 ACCESSORIES

Connex

RS232 Screened Null Modem
This RS232 25-pin compact adaptor, with the necessary crossover wiring, is available in a 3-pack providing all connector types,
(ie. M-M; M-F; F-F) to enable file transfer to be transacted between a range of PCs using standard cables. **Available as male-to-male, male-to-female and female-to-female combinations.**

RS232 Data Tester
This 7 LED tester will show if data is being transferred properly by the individual LED's lighting up. Monitoring signal lines 2, 3, 4, 5, 6, 8 and 20 it provides quick and easy problem solving.



Male – **Female –**



DB 25-Way Female



DB 25-Way Male

TYPE	GENDER	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
RS232 Data Tester	25 M–25 F	91-34-65	11.00	13.85	13.50	13.00
RS232 Screened Null Modem (**3 Pack**)	25 M–25 F	74-33-98	16.50	19.50	19.00	18.50

Male = M Female = F

OTHER ITEMS

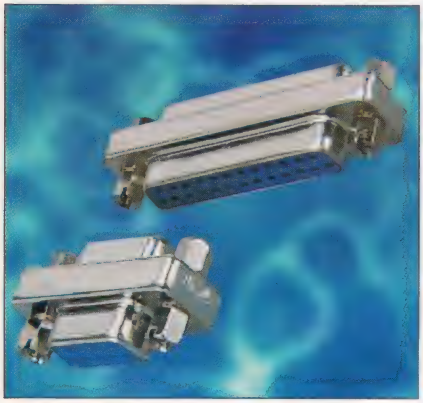
FOR CENTRONICS EXTENSION CABLES SEE PAGE 574
FOR CABLES & CONNECTORS GUIDE SEE PAGE 565

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

GENDER CHANGERS

Connex

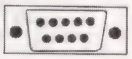


Connex Low-Profile Gender Changers are less than a quarter of the size of conventional gender changers. Gender changers are used when two cables of the same gender need to be joined.

e.g. If a Male cable has to be connected to another Male cable then a Female-Female gender changer is required and vice versa.



DB 9-way M



DB 9-way F

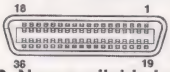


DB 25-way M



DB 25-way F





Male = M,
Female = F

N.B. Now available in 5 packs.

Cent 36-way M Cent 36-way F

DESCRIPTION	CAT NO M-M	CAT NO F-F	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DB 9-way Gender Changer	91-58-89	91-58-96	5.45	5.85	5.80	5.70
DB 25-way Gender Changer	91-59-20	91-59-37	6.65	7.25	7.05	6.90
DB 36-way Centronics Gender Changer	91-59-68	91-59-75	8.45	8.95	8.80	8.70
GENDER CHANGERS – MULTI-PACKS OF 5						
DB 9-way Gender Changer (**5 Pack**)	05-10-28	05-10-11	25.80	27.50	27.00	26.50
DB 25-way Gender Changer (**5 Pack**)	05-10-35	05-10-42	31.50	34.50	34.00	33.50
Centronics 36-way Gender Changer (**5 Pack**)	05-10-59	05-10-66	40.50	43.50	43.00	42.50

SERIAL/PARALLEL ADAPTOR KITS

BELKIN

Convert-A-Port adaptor kits offer the easiest way to connect a parallel printer to your serial port, or a serial printer to your PC's parallel port, without any compatiblity problems. All Convert-A-Port models use standard RS-232C serial communication and support serial baud rates up to 115.2kbps (no software required)

Three kit versions available as follows:

Kit 1: One Convert-A-Port parallel to serial converter (computer side) with DB25 male, one DB25 Male printer modular adaptor and 2.1m cable

Kit 2: One Convert-A-Port serial to parallel converter (printer side) with Centronics 36 Male, one DB25 female PC modular adaptor (computer port) and 2.1m cable.

Kit 3: One Convert-A-Port serial to parallel converter (printer side) with Centronics 36 Male, one DB9 female AT modular adaptor (computer port) and 2.1m cable.



DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Kit 1 Convert-a-Port	46-29-23	49.00	49.99	49.79	49.69
Kit 2 Convert-a-Port	46-29-30	54.19	54.99	54.89	54.59
Kit 3 Convert-a-Port	46-29-47	59.19	59.99	59.79	59.69

OTHER ITEMS

FOR GUIDE TO CONNECTORS 565

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MODULAR & D-TYPE CONNECTORS

Connex



D-Type Connectors
- Available for either 9 or 25-way applications.
- Available in either crimp or solder format.
- Supplied in **packs of 5.**
- Screened metallised plastic hoods.
- Contains all components required.



Modular Connectors
- Quality connectors suitable for twisted pair cables.
- RJ-45 available for 10Base-T, twisted pair ethernet applications.
- RJ-45 connected now available with metallised, shielded hoods.
- Supplied in **packs of 25.**

Male = M Female = F

D-TYPE CONNECTORS – SOLDER	QUANTITY/ PACK	CAT NO	Web Price	PRICE PER PACK £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
25-Way Male Kit – M	5	91-53-60	14.35	14.95	14.85	14.75
25-Way Female Kit – F	5	91-53-77	14.35	14.95	14.85	14.75
9-Way Male Kit – M	5	91-54-18	16.35	17.95	17.50	17.00
9-Way Female Kit – F	5	91-54-25	16.35	17.95	17.50	17.00
D-TYPE CONNECTORS – CRIMP						
25-Way Male Kit – M	5	91-53-84	13.70	14.75	14.50	14.25
25-Way Female Kit – F	5	91-53-91	13.25	14.75	14.50	14.25
9-Way Male Kit – M	5	91-54-32	13.70	14.75	14.50	14.25
9-Way Female Kit – F	5	91-54-49	13.70	14.75	14.50	14.25
MODULAR CONNECTORS						
RJ-45 8-Way Connector	25	91-67-78	8.85	9.85	9.50	9.25
RJ-45 8-Way Connector – Shielded hoods	25	95-35-35	22.35	24.95	23.95	23.50
RJ-45 Through Coupler – Beige	1	95-81-38	7.60	8.75	8.50	8.25
RJ-45 Through Coupler – Beige	25	95-81-45	99.35	99.95	99.85	99.75
RJ-11 6-Way Connector	25	91-67-61	4.60	5.25	5.15	5.00
RJ-45 Crimp Tool **(see page 647)**	—	91-67-92	16.50	16.95	16.85	16.75

OTHER ITEMS

FOR TOOLKITS SEE PAGES 633–637
FOR BULK CABLE SEE PAGES 596, 597
FOR UTP CABLES (RJ-45) SEE PAGES 599, 614

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

50ΩBNC CONNECTORS/ADAPTORS

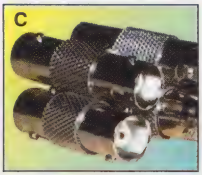
Connex



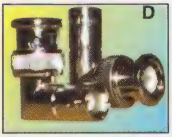
91-55-97



75-77-55



91-55-73



75-77-79



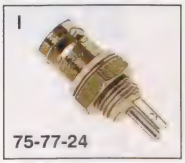
75-76-38



73-13-00



73-12-90



75-77-24



75-76-83



91-55-80

FOR ACTION RANGE OF TOOLS SEE PAGES 633–637

CRIMP CONNECTORS	PACK QTY	PIC REF	CAT NO	Web Price	PRICE PER PACK £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
BNC 50Ω T-Piece Adaptor (1× Male Plug 2× Female) – Socket	5	A	91-55-97	13.20	14.25	14.00	13.75
BNC 50Ω Right-angle Y-Adaptor (1× Male Plug to 2× Female) – Socket	5	B	75-77-55	25.70	26.75	26.50	26.25
BNC 50Ω Female Socket to Female Socket Barrel Adaptor	5	C	91-55-73	7.68	8.95	8.59	8.25
BNC 50Ω Male Plug to Male Plug Barrel Adaptor	5	—	75-77-62	15.20	16.25	16.00	15.75
BNC 50Ω Right-angled Adaptor Male Plug to Female Socket	5	D	75-77-79	11.40	12.95	12.85	12.50
BNC 50Ω Male Plug – Crimp	5	E	73-12-90	5.70	5.99	5.95	5.90
BNC 50ΩRight-angled Male Plug – Crimp	5	F	75-76-38	13.85	14.95	14.50	14.25
BNC 50Ω Female Socket – Crimp	5	G	73-13-00	5.92	6.90	6.62	6.36
SOLDER CONNECTORS							
BNC 50Ω Male Plug – Solder	5	H	75-76-83	5.20	5.50	5.45	5.40
BNC 50Ω Female Socket for Panel Mount – Crimp	5	I	75-77-24	6.65	7.75	7.44	7.14
TERMINATORS							
BNC 50Ω Male Terminator	2	J	91-55-80	4.60	4.90	4.85	4.80
BNC 50Ω Male Terminator – earthed	2	—	95-06-31	6.50	6.95	6.85	6.75
PRODUCTION PACK – Pack of 100, for Major Assemblers of Thin Ethernet Cable							
BNC 50Ω Male – Crimp Production Pack	100	—	73-13-17	42.70	44.90	44.50	44.00

OTHER ITEMS

FOR TOOLKITS SEE PAGES 633–637
FOR BULK CABLES SEE PAGES 596, 597
FOR NETWORK CABLES GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

BRANDED NETWORK CABLES CISCO 3com Shiva

DESCRIPTION	PART NO	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
CISCO CABLES FOR ROUTERS FEATURED ON PAGES 777–779						
V35 Cable, DTE, Male, 10 feet	CAB-V35MT	49-31-17	74.55	74.99	74.89	74.79
V35 Cable, DCE, Female, 10 feet	CAB-V35FC	49-53-81	74.55	74.99	74.89	74.79
RS-232 Cable, DTE, Male, 10 feet	CAB232MT	97-56-61	74.55	74.99	74.89	74.79
RS-232 Cable, DCE, Female, 10 feet	CAB232FC	49-94-94	74.55	74.99	74.89	74.79
RS-449 Cable, DTE, Male, 10 feet	CAB-449MT	49-17-33	74.55	74.99	74.89	74.79
RS-449 Cable, DTE, Female, 10 feet	CAB-449FC	49-15-22	74.55	74.99	74.89	74.79
X.21 Cable, DTE, Male, 10 feet	CAB-X21MT	44-40-06	74.55	74.99	74.89	74.79
X.21 Cable, DCE, Female, 10 feet	CAB-X21FC	24-28-06	74.55	74.99	74.89	74.79
X.21 Cable, DTE, Male for Smart serial, 10 feet	CAB-SS-X21MT	49-70-35	74.55	74.99	74.89	74.79
8 Lead Octal Cable & 8 Male V35 DTE Connectors 6 feet	CAB-OCT-V35MT	49-22-75	458.33	◗	499.00	484.03
8 Lead Octal Cable & 8 Female V35 DCE Connectors	CAB-OCT-V35FC	49-49-62	437.00	◗	449.00	445.00
8 Lead Octal Cable & 8 Male RS232/V24 DTE Connectors	CAB-OCT-232MT	49-12-60	377.50	◗	399.00	389.00
8 Lead Octal Cable & 8 Male X21 DTE Connectors	CAB-OCT-V21MT	49-39-04	346.50	◗	349.99	348.99
8 Lead Octal Cable & 8 Female X21 DCE Connectors	CAB-OCT-X21FC	49-27-82	346.50	◗	349.99	348.99
E1-ISDN PRI cable, 10 feet	CAB-E1-PRI	49-36-90	73.50	74.99	74.89	74.79
E1 Cable Twinax 120ohm/Balanced, 3m	CAB-E1-TWINAX	49-98-41	74.55	74.99	74.89	74.79
E1 Cable BNC 75ohm/Unbalanced, 5m	CAB-E1-BNC	49-53-82	74.55	74.99	74.89	74.79
X.21 Cable, DTE, Male, 10 feet NP-2T only	CAB-NPX21T	49-76-63	74.55	74.99	74.89	74.79
RPS 22/18, 2 to 1 DC Power Cable	CAB-RPSY-2218	49-78-05	294.95	◗	299.95	298.95
3COM CABLES FOR 3COM HUBS (PAGES 666–671) AND SWITCHES (PAGES 687–690)						
Hub Expansiion Cable for SuperStack II Hub	3C625	84-31-33	23.29	23.89	23.79	23.69
Hub Expansion Cascade Cable 30cm SuperStackII	3C510507	49-62-56	29.55	29.99	29.89	29.79
Expansion Cable for SuperStackII Hub 100	3C219	84-73-28	35.94	36.54	36.44	36.34
Cascade Cable 30CM for SuperStack II PS Hub	3C16420	84-96-70	29.55	29.99	29.89	29.79
Cascade Cable for 3M for SuperStack II PS Hub	3C16422	49-31-46	39.50	39.95	39.85	39.75
SuperStack II DS 500 Hub Cascade Cable 30CM	3C16695	41-81-35	19.90	22.50	22.40	22.30
Matrix Cable 03.m for Superstack II Switch	3C16965	45-01-79	56.80	57.40	57.30	57.20
SuperStack II Advanced RPS Y-Cable Type	3C16078	49-91-71	74.40	74.99	74.89	74.79
SHIVA CABLES FOR SHIVA ROUTERS FEATURED ON PAGES 773–776						
Shiva Lanrover Modem Cables 1.0m	CS0676-02/01	49-18-01	24.55	24.99	24.89	24.79
Shiva Lanrover T/A (BRI) Cables 1.0m	CS0311-01	49-31-16	24.55	24.99	24.89	24.79
Shiva Integrator x.21 Cables 1.0m	750-1860-00	99-91-42	21.45	24.99	23.99	23.03

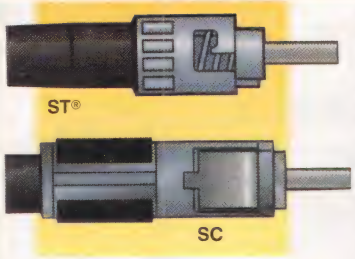
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

FIBRE OPTIC CABLING

Connex





Fibre Optic Duplex Patch Leads – 62.5/125 terminated with Industry STII Fibre connectors, uses include: Drop/Patch applications within racks & general purpose connection to transceivers, multiplexers ... etc.
Fibre Optic Pigtail Leads are used to splice into trunk/backbone Fibre cable, one end terminated STII.



Fibre Optic Cable Cross-Section

DESCRIPTION	CONNECTOR	LENGTH (m)	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Connex Fibre Optic Patch Cable	ST-ST	0.5	79-02-93	23.50	24.95	24.75	24.50
Connex Fibre Optic Patch Cable	ST-ST	1.0	79-03-03	28.50	29.95	29.75	29.50
Connex Fibre Optic Patch Cable	ST-ST	3.0	79-03-41	38.50	39.95	39.75	39.50
Connex Fibre Optic Patch Cable	ST-ST	5.0	79-03-27	43.00	44.95	44.75	44.50
Connex Fibre Optic Patch Cable	ST-ST	20.0	79-03-58	82.50	84.95	84.50	84.00
Fibre Optic Patch Cable	ST-MIC	2.0	46-28-13	58.50	59.95	59.75	59.50
Fibre Optic Patch Cable	MIC-MIC	2.1	46-28-20	58.99	59.95	59.85	59.75
Fibre Optic Patch Cable	SC-SC	1.0	46-28-44	63.50	64.95	64.75	64.50
Fibre Optic Patch Cable	ST-SC	2.0	46-28-68	53.50	54.95	54.75	54.50
Fibre Optic Patch Cable	SS-MIC	1.0	46-28-75	92.75	94.95	94.50	94.00
CONNEX FIBRE OPTIC PIGTAIL CABLES – used to splice into Fibre Backbones							
Connex Fibre Optic Pigtail Cable		0.5	79-03-65	7.70	8.45	8.35	8.25
Connex Fibre Optic Pigtail Cable		1.0	79-03-72	11.70	12.45	12.35	12.25

IBM CABLING SYSTEM

Connex

DESCRIPTION	EQUIV. IBM PART NO.	LENGTH (m)	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
ADAPTOR CABLE – used to connect workstation to wallplate or MAU							
9-Way D to Data Connector	6339098	2.5	95-27-94	11.20	12.25	12.00	11.75
9-Way D to Data Connector	—	5.0	91-78-18	12.70	13.95	13.75	13.50
PATCH CABLES – used for the Inter-connection between MAUs and within patch panels							
Data Connector to Data Connector	8642551	2.5	91-78-25	13.70	14.95	14.75	14.50
Data Connector to Data Connector	8642551	9.0	91-78-32	19.20	20.95	20.50	20.00

OTHER ITEMS

FOR BULK 100M CABLE SEE PAGES 596, 597
FOR NETWORK CABLES GUIDE SEE PAGE 559

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

THIN ETHERNET CABLES

Connex

Thin Ethernet Cables. Manufactured from **high quality 9907 cable**, meeting the specification for DEC networks. **Suitable for use with all Thin Ethernet** networks.
Colour: Black.



Thin Ethernet Connector

Connex 9907 cables are now available in both packs of 5 and 10 cables providing a cost effective method of purchasing multiple cables.



Male=M Female=F

FEATURES:
- URM 76 Equivalent.
- 50Ω Impedance.
- Nominal overall diameter - 5.0mm.
- Capacitance 100pF/m.
- Colour – Black.
- Available in **packs of 10.**

The Connex RG-58 Thin Ethernet Cable is suitable for use with most 10Base-2 thin ethernet networks. Made from a thinned copper conductor with solid polyethylene dielectric tinned copper wire braid and black PVC sheath, the Connex RG-58 cable comes with a characteristic impedance of 50Ω.

DESCRIPTION	TERMINATIONS	LENGTH (m)	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
9907 Thin Ethernet Cable	BNC M to M	2	92-19-07	5.50	5.95	5.85	5.75
9907 Thin Ethernet Cable	BNC M to M	3	92-19-14	6.00	6.55	6.45	6.35
9907 Thin Ethernet Cable	BNC M to M	5	92-19-38	7.50	7.95	7.85	7.75
9907 Thin Ethernet Cable	BNC M to M	10	92-19-52	12.10	12.55	12.45	12.35
9907 Thin Ethernet Cable	BNC M to M	15	92-19-69	12.50	12.95	12.85	12.75
9907 Thin Ethernet Cable	BNC M to M	20	92-19-76	16.35	16.95	16.85	16.75
9907 CABLE – PACK OF 5							
9907 Thin Ethernet Cable – (**5 pk**)	BNC M to M	1	05-37-58	25.10	25.95	25.75	25.50
9907 Thin Ethernet Cable – (**5 pk**)	BNC M to M	2	05-37-65	26.60	27.50	27.25	27.00
9907 Thin Ethernet Cable – (**5 pk**)	BNC M to M	3	05-37-72	28.60	29.50	29.25	29.00
9907 CABLE – PACK OF 10							
9907 Thin Ethernet Cable – (**10 pk**)	BNC M to M	1	05-13-10	48.20	49.90	49.50	49.00
9907 Thin Ethernet Cable – (**10 pk**)	BNC M to M	2	05-13-27	52.20	53.90	53.50	53.00
RG-58 THIN ETHERNET CABLES (Packs of 10)							
RG-58 Cable – (**pack of 10**)	BNC M to M	2	89-56-93	53.75	55.95	55.50	55.00
RG-58 Cable – (**pack of 10**)	BNC M to M	3	89-57-03	56.75	58.95	58.50	58.00
RG-58 Cable – (**pack of 10**)	BNC M to M	5	89-57-10	71.75	73.95	73.50	73.00

OTHER ITEMS

FOR BULK 300M CAT 5 CABLE SEE PAGES 596, 597
FOR NETWORK CABLE GUIDE SEE PAGE 599

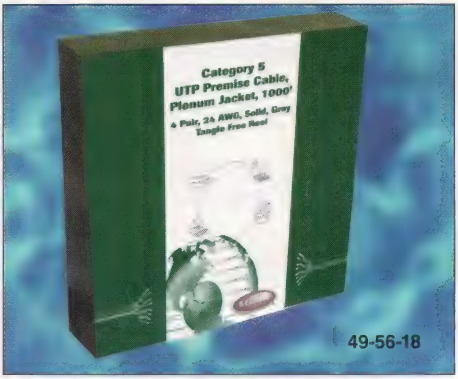
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW item on this page

UTP/STP BULK CABLE

Connex





Solid Cable vs. Stranded Cable: is used for premise (in-wall) applications such as faceplate to patch panel. It is designed to be 'punched' down. Stranded cable is used for patch (outside wall) applications such as card to faceplate, or patch panel to hub. Stranded cable is used with RJ-45 crimp connectors.

	DESCRIPTION	REEL LENGTH (m)	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	CAT 5 Stranded UTP Bulk Cable	500m	49-56-18	138.69	◗	139.79	139.59
	CAT 5 Solid 4 Pair PVC Jacket STP Bulk Cable	500m	49-55-38	239.05	◗	239.90	239.60

BULK CABLE REELS

Connex

A Local Area Network, or LAN, is a powerful piece of connectivity. LANs link computers, printers, modems and other computer related devices together to share resources and information for maximum productivity.
The type of network you install will reflect your specific needs. No network can be any better than the quality of the cables that connect it. Connex's network cabling products reflect our commitment to making your network the best.



For more details see Action's website @ www.Action.com

	DESCRIPTION	REEL LENGTH (m)		Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	CAT 5 Solid Core 4 Pair Cable Grey PVC Jacket	75	46-28-06	24.20	24.95	24.85	24.75
	CAT 5 Solid Core 4 Pair Cable Grey PVC Jacket	300	46-32-38	74.20	74.95	74.85	74.75
	FastCat Solid 4 Pair Grey PVC Jacket up to 350MHz 10/100Base-T	75	46-32-45	34.20	34.95	34.85	34.75
	FastCat Solid 4 Pair Grey PVC Jacket up to 350MHz 10/100Base-T	300	46-32-52	96.50	97.95	97.75	97.50
NEW	CAT 5 Stranded UTP Bulk Cable	500m	49-56-18	138.69	◗	139.79	139.59
	CAT 5 Solid 4 Pair PVC Jacket STP Bulk Cable	500m	49-55-38	239.05	◗	239.90	239.60

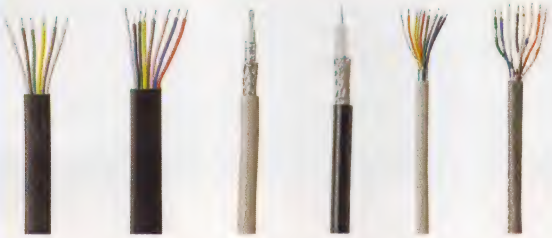
OTHER ITEMS
FOR CABLES & CONNECTORS GUIDE SEE PAGE 565

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

BULK CABLE REELS

Connex

BULK REELS





Cat No.	92-25-80	92-26-21	91-54-63	91-55-42	72-03-42	95-81-21
General Description	Flat Modular wiring cable	50 ohm double screened, DEC approved, Coax	50 ohm Coax Thin Ethernet RG58	General data Cable	Unshielded Twisted Pair Category 5	Shielded Twisted Pair Category 5
General Applications	RJ45 patch cable RS232	Thin Ethernet DEC approved	Thin Ethernet	RS232 serial data	10Base-T (Twisted Pair Ethernet) and forthcoming 100Mbps Networks	
Equiv Ref	N/A	Belden 9907	URM 76	N/A	AT&T 1061	EIA/TIA 568
No of Cores	8	2	2	10	8 (4 pairs)	4 pairs
Conductors	26 AWG	20 AWG	20 AWG	28 AWG	24 AWG	24 AWG
Jacket	Black PVC	Black PVC	Black PVC	Beige PVC	Various PVC	Black PVC
Nominal Diameter	2.3×6.6mm	4.6mm	4.95mm	5.07mm	4.83mm	6.6mm
Screen	N/A	Foil screen and overall braid	Braid screen	Foil screen and drain wire	N/A	Alumised Polyester foil

*Available in Grey, Red or Green.

DESCRIPTION	REEL LENGTH (m)	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
UTP (10Base-T) Cat 5-**Grey 300m Box***	300	72-03-42	56.00	63.00	62.00	60.00
UTP (10Base-T) Cat 5-**Red 300m Box**	300	95-14-72	97.00	99.85	99.25	99.00
UTP (10Base-T) Cat 5-**Green 300m Box**	300	95-14-89	96.25	99.85	99.00	98.00
Thin Ethernet 9907	100	92-26-21	34.00	39.85	39.50	38.75
*STP (10Base-T) Cat 5-24 AWG foil shielded	305	95-81-21	110.00	◗	119.00	117.00
RJ-45 Cable (Modular)	100	92-25-80	24.75	27.85	27.50	27.00
Thin Ethernet RG58	100	91-54-63	26.00	28.95	28.50	28.00
8 Core Multi-Core	100	91-55-42	34.00	37.95	36.95	35.95

Action provide these bulk cables on cable reels for easy handling. *Stranded conductor cable.

OTHER ITEMS

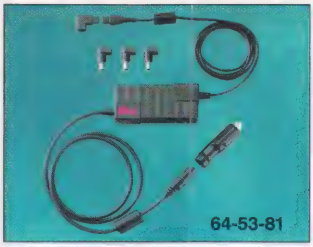
FOR CONNECTORS GUIDE SEE PAGE 565
FOR TOOLKITS SEE PAGES 633–637
FOR NETWORK CABLES GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NOTEBOOK ACCESSORIES



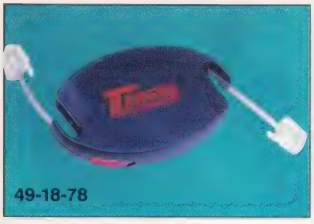
USB Mobile Mini Hub
- 4 USB ports
- Allows multiple devices to be connected simultaneously
- Includes an AC Adaptor
- Smallest and lightest hub available
- Internally house 12" USB cable
- Plug and play technology



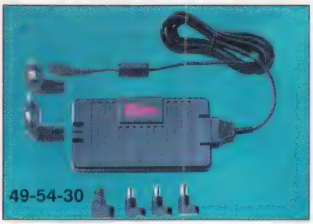
Universal Power Adaptor
- Includes patented PowerTips™ which ensure correct voltage for IBM, Toshiba, Compaq
- Other PowerTips available for other models through Targus customer support
- UL and CE approved
- Includes 3 metre power cord



Notebook Modem Protector
- Protects your modem from Digital Over current
- Automatically corrects reversed polarity
- Easily connects to any RJ-11 phone line
- Doubles as RJ-11 coupler
- Makes connecting off-site faster and safer



Retractable Telephone Cord
- 2.4 metres of fuss free cable
- Automatic adjustable recoil reels up in seconds
- Compact design avoids clutter Modem Protector
- Gives continuous protection against the following:
- High Currect Digital Phone Line detection
- Automatic Modem Protection against power surge
- Automatic Polarity Reverse
- Small and convenient size



Universal Auto/Air Adaptor
- Revolutionary Charge Source Tip to connect your notebook
- Power can be sourced from 12 cigarette lighter point in vehicl or Empower source on some flights
- PowerTips included for Compaq, IBM, Toshiba Notebooks
- Other PowerTips are available through Targus customer support



24x Slimline CD ROM
- Includes in the package: 24x CD Drive, PC Card Interface Cable, PS/2 cable, Audio cable, driver diskette, CD ROM Carrying case and user guide
- Light weight, compact and portable
- Product supports – Windows 95, 98 and NT
- Powered from the notebook PC Card slot

	DESCRIPTION	CAT NO	Web Price	PRICE EACH (£) (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	Targus 4 port USB mobile Mini Hub	49-95-24	49.35	49.95	49.85	49.75
NEW	Targus Universal Auto/Air Adaptor	49-54-30	89.35	89.95	89.85	89.75
NEW	Targus Universal Power Adaptor	64-53-81	66.99	67.95	67.85	67.75
NEW	Targus Notebooks Modem Protector	49-70-57	24.45	24.95	24.85	24.75
NEW	Targus Retractable Telephone Cord	49-18-78	9.45	9.95	9.85	9.75
NEW	Targus Universal 24x Slimline CD ROM	64-39-14	144.81	◗	149.99	148.49

OTHER ITEMS
FOR MORE USB PRODUCTS SEE PAGES 544–547
FOR CABLE MANAGEMENT PRODUCTS SEE PAGES 615, 616

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NETWORK CABLING GUIDE

Action offer a range of network cables for both Ethernet and Token Ring Networks. On this page we explain the fundamentals of Ethernet network cabling and provide some basic rules which must be adhered to when installing network cables.

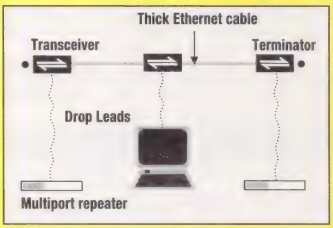
ETHERNET

Ethernet networks can be configured in one of two ways; either in a bus topology which consists of one continuous length of cable to which devices are attached using transceivers, or in a Star topology where each device is connected to a central hub through which all data passes. Numerous devices can be linked together by cascading a number of hubs.

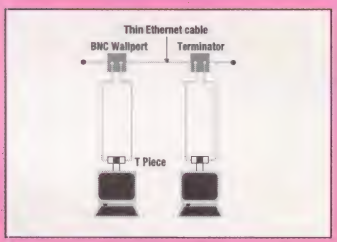
There are four main cable types used in an Ethernet network. Under the IEEE (Institute of Electrical and Electronic Engineers) 802.3 rules, each cable type has a maximum permissible length per segment and a maximum number of attachments on a single segment. These restrictions are summarised in the table below.

Cable Type	Definition	Alternative	Interface	Max. Single	Max Attachments
Thick Coax	10Base-5	Thick Ethernet	AUI	500m	100
Thin Coax	10Base-2	Thin Ethernet	BNC	185m	30
Twisted Pair	10Base-T	UTP	RJ-45	100m	2
Fibre Optic	10BaseFOIRL	Fibre	ST/SMA	1000m	2

Thick Coax (10Base-5) – (AUI Connector)



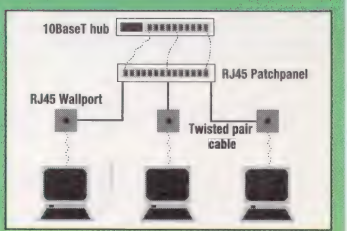
1. Maximum segment length of 500m.
2. Maximum of 100 connection per segment.
3. A maximum of three thick Coax segments between any two end nodes.
4. Both ends of a Coax segment must be terminated with a 50 Ohm terminator.
5. Transceivers should be placed at 2.5m intervals along the coax segments.
6. Every thick Coax segment must be grounded at only one point.
7. Only transceivers without heartbeats should be used with repeaters connecting segments.
8. A segment should be an uncut length of coax.
9. Maximum length of any single series path must not exceed three Thick Coax segments and two inter-repeater links.



Thin Coax (10Base-2) – (BNC Connector)

1. Maximum cable length of 185m.
2. Maximum 30 connections per segment.
3. Maximum three active Thin Ethernet segments in a series.
4. Maximum length of any single series path must not exceed three Thin Coax segments and two inter-repeater links.
5. Maximum of four repeaters/hubs between any two modes.
6. Both ends of a Coax segment must be terminated with a 50 Ohm terminator.
7. Devices should be placed at 2.5m intervals along the coax segment.
8. Every Thin Coax segment must be grounded at only one point.

Unshielded Twisted Pair (10Base-T) – (RJ-45 Connectors)



1. Maximum cable length is 100m.
2. Each cable must be a point-to-point connection.
3. Each UTP cable will be a single segment.
4. The cable used must be between 85 Ohms and 100 Ohms.
5. Each cable must be terminated with RJ-45 connectors.
6. The cable should have two twists per foot.
7. A cross-over cable should be used for inter-repeater links.

OTHER ITEMS
FOR NETWORK CABLES, CONNECTORS AND TOOL KITS SEE PAGES 565–637

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

UTP (CAT 5) 10/100BASE-T ETHERNET CABLES

Connex



The **Connex Range of Category 5 UTP** (Unshielded Twisted Pair) cables featured here can be used for any ethernet point-to-point application. Ideal for patching within standard 19" racks or wiring concentrators, the Connex Category 5 range offers a range of coloured cables to help aid identification within complex patching situations.

Cat 5E offers more headroom and enhanced data transfer speeds than regular Cat 5.

CAT 5 UTP CABLES – GREY	TERMINATION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
RJ-45 to RJ-45 Cat 5 Cable	M to M	0.5	73-13-79	3.89	4.20	4.15	4.10
RJ-45 to RJ-45 Cat 5 Cable	M to M	1	73-13-86	4.05	4.35	4.30	4.25
RJ-45 to RJ-45 Cat 5 Cable	M to M	2	73-13-93	4.45	4.90	4.80	4.70
RJ-45 to RJ-45 Cat 5 Cable	M to M	3	73-14-03	5.35	5.80	5.70	5.60
RJ-45 to RJ-45 Cat 5 Cable	M to M	5	73-14-10	6.35	6.80	6.70	6.60
RJ-45 to RJ-45 Cat 5 Cable	M to M	10	73-14-27	9.80	10.25	10.15	10.05
RJ-45 to RJ-45 Cat 5 Cable	M to M	15	73-14-34	12.00	12.45	12.35	12.25
CAT 5 UTP CABLES – GREY (Bulk Packs of 4)							
RJ-45 to RJ-45 Cat 5 Cable **(4 pk)**	M to M	0.5	04-16-81	15.30	15.60	15.55	15.50
RJ-45 to RJ-45 Cat 5 Cable **(4 pk)**	M to M	1	04-16-98	16.50	16.80	16.75	16.70
RJ-45 to RJ-45 Cat 5 Cable **(4 pk)**	M to M	2	04-17-08	18.20	19.00	18.80	18.60
RJ-45 to RJ-45 Cat 5 Cable **(4 pk)**	M to M	3	04-17-15	21.25	22.00	21.80	21.60
RJ-45 to RJ-45 Cat 5 Cable **(4 pk)**	M to M	5	04-17-22	25.25	26.00	25.80	25.60
RJ-45 to RJ-45 Cat 5 Cable **(4 pk)**	M to M	10	04-17-39	38.20	39.00	38.80	38.60
RJ-45 to RJ-45 Cat 5 Cable **(4 pk)**	M to M	15	04-17-46	47.25	48.00	47.80	47.60
CAT 5 UTP CABLES – GREY (Bulk Packs of 10)							
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M to M	1	04-17-60	38.65	38.95	38.90	38.85
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M to M	2	04-17-84	43.50	43.95	43.85	43.75
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M to M	3	04-17-91	48.75	51.00	50.50	50.00
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M to M	5	04-18-01	61.25	63.00	62.50	62.00
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M to M	10	06-17-38	89.05	89.95	89.70	89.45
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M to M	15	06-70-37	113.85	➧	114.95	114.50
CAT 5 UTP CABLES – GREY (Bulk Packs of 25)							
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M to M	1	05-11-07	93.50	98.00	97.00	96.00
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M to M	2	05-10-73	103.50	➧	107.00	106.00
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M to M	3	05-10-80	122.50	➧	126.00	125.00
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M to M	5	05-10-97	148.50	➧	152.00	151.00
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M to M	10	06-22-73	218.85	➧	219.95	219.50
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M to M	15	06-49-55	278.85	➧	279.95	279.50

OTHER ITEMS

FOR BULK 300M CAT 5 CABLE SEE PAGES 596, 597
FOR NETWORK CABLE GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

UTP (CAT 5) 10/100BASE-T ETHERNET CABLES

Connex

The **Connex Range of Category 5 UTP** (Unshielded Twisted Pair) cables featured here can be used for any ethernet point-to-point application. Ideal for patching within standard 19" racks or wiring concentrators, the Connex Category 5 range offers a range of coloured cables to help aid identification within complex patching situations.



CAT 5 UTP CABLES – WHITE	TERMINATION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
RJ-45 to RJ-45 Cat 5 Cable	M to M	0.5	49-53-30	3.89	4.20	4.15	4.10	✂
RJ-45 to RJ-45 Cat 5 Cable	M to M	1	49-53-47	4.05	4.35	4.30	4.25	✂
RJ-45 to RJ-45 Cat 5 Cable	M to M	2	49-53-54	4.40	4.90	4.80	4.70	
RJ-45 to RJ-45 Cat 5 Cable	M to M	3	49-53-61	5.35	5.80	5.70	5.60	
RJ-45 to RJ-45 Cat 5 Cable	M to M	5	49-53-78	6.35	6.80	6.70	6.60	
RJ-45 to RJ-45 Cat 5 Cable	M to M	10	49-53-85	9.80	10.25	10.15	10.05	
RJ-45 to RJ-45 Cat 5 Cable	M to M	15	49-53-92	12.00	12.45	12.35	12.25	
CAT 5 UTP CABLES – WHITE (Bulk Packs of 4)								
RJ-45 to RJ-45 Cat 5 Cable **(4 pk)**	M to M	0.5	06-64-84	15.30	15.60	15.55	15.50	✂
RJ-45 to RJ-45 Cat 5 Cable **(4 pk)**	M to M	1	06-64-91	16.50	16.80	16.75	16.70	✂
RJ-45 to RJ-45 Cat 5 Cable **(4 pk)**	M to M	2	06-65-01	18.10	19.00	18.80	18.60	
RJ-45 to RJ-45 Cat 5 Cable **(4 pk)**	M to M	3	06-65-18	21.10	22.00	21.80	21.60	
RJ-45 to RJ-45 Cat 5 Cable **(4 pk)**	M to M	5	06-65-25	25.10	26.00	25.80	25.60	
RJ-45 to RJ-45 Cat 5 Cable **(4 pk)**	M to M	10	06-65-32	47.10	48.00	47.80	47.60	
RJ-45 to RJ-45 Cat 5 Cable **(4 pk)**	M to M	15	06-65-49	47.25	48.00	47.80	47.60	
CAT 5 UTP CABLES – WHITE (Bulk Packs of 10)								
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M to M	1	06-65-56	38.65	38.95	38.90	38.85	✂
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M to M	2	06-65-63	43.35	43.95	43.85	43.75	
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M to M	3	06-65-70	44.60	51.95	49.87	47.88	
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M to M	5	06-65-87	61.20	63.00	62.50	62.00	
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M to M	10	06-17-93	89.05	89.95	89.70	89.45	
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M to M	15	06-31-11	113.85	♦	114.95	114.50	
CAT 5 UTP CABLES – WHITE (Bulk Packs of 25)								
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M to M	1	06-65-94	94.40	98.00	97.00	96.00	
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M to M	2	06-66-04	104.40	♦	107.00	106.00	
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M to M	3	06-66-11	123.40	♦	126.00	125.00	
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M to M	5	06-66-28	149.40	♦	152.00	151.00	
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M to M	10	06-53-72	213.85	♦	219.95	219.50	
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M to M	15	06-94-90	278.85	♦	279.95	279.50	

OTHER ITEMS

FOR BULK 300M CAT 5 CABLE SEE PAGES 596, 597
FOR NETWORK CABLE GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

UTP (CAT 5) 10/100BASE-T ETHERNET CABLES

Connex

CAT 5 UTP CABLES – RED	TERMINATION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
RJ-45 to RJ-45 Cat 5 Cable	M to M	0.5	89-48-69	3.89	4.20	4.15	4.10
RJ-45 to RJ-45 Cat 5 Cable	M to M	1	95-02-46	4.05	4.35	4.30	4.25
RJ-45 to RJ-45 Cat 5 Cable	M to M	2	95-02-53	4.45	4.90	4.80	4.70
RJ-45 to RJ-45 Cat 5 Cable	M to M	3	95-02-60	5.35	5.80	5.70	5.60
RJ-45 to RJ-45 Cat 5 Cable	M to M	5	95-02-77	6.35	6.80	6.70	6.60
RJ-45 to RJ-45 Cat 5 Cable	M to M	10	89-49-17	9.80	10.25	10.15	10.05
RJ-45 to RJ-45 Cat 5 Cable	M to M	15	46-93-42	12.00	12.45	12.35	12.25
CAT 5 UTP CABLES – RED (Bulk Packs of 4)							
RJ-45 to RJ-45 Cat 5 Cable **(4 pk)**	M to M	0.5	04-18-25	15.30	15.60	15.55	15.50
RJ-45 to RJ-45 Cat 5 Cable **(4 pk)**	M to M	1	04-18-32	16.50	16.80	16.75	16.70
RJ-45 to RJ-45 Cat 5 Cable **(4 pk)**	M to M	2	04-18-94	18.25	19.00	18.80	18.60
RJ-45 to RJ-45 Cat 5 Cable **(4 pk)**	M to M	3	04-18-49	21.25	22.00	21.80	21.60
RJ-45 to RJ-45 Cat 5 Cable **(4 pk)**	M to M	5	04-18-63	25.25	26.00	25.80	25.60
RJ-45 to RJ-45 Cat 5 Cable **(4 pk)**	M to M	10	04-18-70	38.25	39.00	38.80	38.60
RJ-45 to RJ-45 Cat 5 Cable **(4 pk)**	M to M	15	06-63-05	47.25	48.00	47.80	47.60
CAT 5 UTP CABLES – RED (Bulk Packs of 10)							
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M to M	1	04-19-04	38.65	38.95	38.90	38.85
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M to M	2	04-19-11	43.40	43.95	43.85	43.75
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M to M	3	04-19-28	49.60	51.95	51.50	51.00
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M to M	5	04-19-35	61.05	63.00	62.50	62.00
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M to M	10	06-12-54	89.05	89.95	89.70	89.45
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M to M	15	06-08-46	113.85	◗	114.95	114.50
CAT 5 UTP CABLES – RED (Bulk Packs of 25)							
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M to M	1	05-11-14	93.50	98.00	97.00	96.00
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M to M	2	05-11-21	103.50	◗	107.00	106.00
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M to M	3	05-11-38	122.50	◗	126.00	125.00
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M to M	5	05-11-45	148.50	◗	152.00	151.00
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M to M	10	06-39-05	218.85	◗	219.95	219.50
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M to M	15	06-27-79	278.85	◗	279.95	279.50
CAT 5 CABLE ACCESSORIES							
Connex RJ-45 – Through Coupler & Splitter – beige			95-81-38	7.60	8.75	8.50	8.25
Connex RJ-45 – fully shielded in-line Coupler			49-95-14	8.35	8.99	8.89	8.79
Connex Plastic non-releasable cable ties 4.6 × 203mm (100pk)			49-08-66	6.10	6.95	6.85	6.75
Connex Plastic Releasable cable ties 4.8 × 200mm (100pk)			49-37-02	9.35	9.95	9.85	9.75
Connex Velcro cable ties – black 17.5cm (24pk)			49-32-88	9.60	9.95	9.90	9.85
Connex Multicoloured Velcro cable ties 17.5cm (24pk)			49-55-20	9.60	9.95	9.90	9.85

OTHER ITEMS

FOR BULK 300M CAT5 CABLE SEE PAGES 596, 597
FOR NETWORK CABLE GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

UTP (CAT 5) 10/100BASE-T ETHERNET CABLES

Connex

The **Connex** range of **Category 5 UTP cables** are available in a range of colours and lengths and are ideal for patching within standard 19" rack or wiring concentrators. Connex Category 5 UTP cables are also available in **packs of 4, 10 and 25** providing a cost effective option for larger wiring needs.

Cat 5E offers more headroom and enhanced data transfer speeds than regular Cat 5.

NOW CAT5E COMPLIANT



M=Male F=Female

CAT 5 UTP CABLES – YELLOW	TERMINATION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
RJ-45 to RJ-45 Cat 5 Cable	M to M	0.5	89-48-76	3.89	4.20	4.15	4.10	✂
RJ-45 to RJ-45 Cat 5 Cable	M to M	1	95-02-84	4.05	4.35	4.30	4.25	✂
RJ-45 to RJ-45 Cat 5 Cable	M to M	2	95-02-91	4.45	4.90	4.80	4.70	
RJ-45 to RJ-45 Cat 5 Cable	M to M	3	95-03-01	5.35	5.80	5.70	5.60	
RJ-45 to RJ-45 Cat 5 Cable	M to M	5	95-03-18	6.35	6.80	6.70	6.60	
RJ-45 to RJ-45 Cat 5 Cable	M to M	10	89-49-24	9.80	10.25	10.15	10.05	
RJ-45 to RJ-45 Cat 5 Cable	M to M	15	46-93-59	12.00	12.45	12.35	12.25	
CAT 5 UTP CABLES – YELLOW (Bulk pks of 4)								
RJ-45 to RJ-45 Cat 5 Cable **(4 pk)**	M to M	0.5	04-19-42	15.30	15.60	15.55	15.50	✂
RJ-45 to RJ-45 Cat 5 Cable **(4 pk)**	M to M	1	04-19-59	16.50	16.80	16.75	16.70	✂
RJ-45 to RJ-45 Cat 5 Cable **(4 pk)**	M to M	2	04-19-66	18.25	19.00	18.80	18.60	
RJ-45 to RJ-45 Cat 5 Cable **(4 pk)**	M to M	3	04-19-73	21.25	22.00	21.80	21.60	
RJ-45 to RJ-45 Cat 5 Cable **(4 pk)**	M to M	5	04-19-80	25.25	26.00	25.80	25.60	
RJ-45 to RJ-45 Cat 5 Cable **(4 pk)**	M to M	10	04-19-97	38.25	40.00	38.80	38.60	
RJ-45 to RJ-45 Cat 5 Cable **(4 pk)**	M to M	15	06-63-12	47.25	48.00	47.80	47.60	
CAT 5 UTP CABLES – YELLOW (Bulk pks of 10)								
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M to M	1	04-20-06	38.65	38.95	38.90	38.85	✂
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M to M	2	04-20-13	43.50	43.95	43.85	43.75	
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M to M	3	04-20-20	46.69	52.95	51.50	51.00	
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M to M	5	04-20-75	61.07	63.00	62.50	62.00	
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M to M	10	06-36-85	89.05	89.95	89.70	89.45	
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M to M	15	06-98-37	113.85	➧	114.95	114.50	
CAT 5 UTP CABLES – YELLOW (Bulk pks of 25)								
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M to M	1	05-11-52	94.20	98.00	97.00	96.00	
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M to M	2	05-11-69	103.50	➧	107.00	106.00	
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M to M	3	05-11-76	123.00	➧	126.00	125.00	
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M to M	5	05-11-83	149.00	➧	152.00	151.00	
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M to M	10	06-53-73	218.85	➧	219.95	219.50	
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M to M	15	06-76-60	278.85	➧	279.95	279.50	

OTHER ITEMS

FOR BULK 300M CAT 5 CABLE SEE PAGES 596, 597
FOR NETWORK CABLE GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

UTP (CAT 5) 10/100BASE-T ETHERNET CABLES

Connex

CAT 5 UTP CABLES – GREEN	TERMINATION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
RJ-45 to RJ-45 Cat 5 Cable	M to M	0.5	89-48-83	3.89	4.20	4.15	4.10
RJ-45 to RJ-45 Cat 5 Cable	M to M	1	95-03-25	4.05	4.35	4.30	4.25
RJ-45 to RJ-45 Cat 5 Cable	M to M	2	95-03-32	4.45	4.90	4.80	4.70
RJ-45 to RJ-45 Cat 5 Cable	M to M	3	95-03-49	5.35	5.80	5.70	5.60
RJ-45 to RJ-45 Cat 5 Cable	M to M	5	95-03-56	6.35	6.80	6.70	6.60
RJ-45 to RJ-45 Cat 5 Cable	M to M	10	89-49-31	9.80	10.25	10.15	10.05
RJ-45 to RJ-45 Cat 5 Cable	M to M	15	46-93-66	12.00	12.45	12.35	12.25
CAT 5 UTP CABLES – GREEN (Bulk Packs of 4)							
RJ-45 to RJ-45 Cat 5 Cable – **(4 pk)**	M to M	0.5	04-20-82	15.00	15.60	15.50	15.40
RJ-45 to RJ-45 Cat 5 Cable – **(4 pk)**	M to M	1	04-20-99	16.20	16.80	16.70	16.60
RJ-45 to RJ-45 Cat 5 Cable – **(4 pk)**	M to M	2	04-21-09	18.25	19.00	18.80	18.60
RJ-45 to RJ-45 Cat 5 Cable – **(4 pk)**	M to M	3	04-21-16	21.20	22.00	21.80	21.60
RJ-45 to RJ-45 Cat 5 Cable – **(4 pk)**	M to M	5	04-21-23	22.32	26.00	24.96	23.96
RJ-45 to RJ-45 Cat 5 Cable – **(4 pk)**	M to M	10	04-21-30	38.20	39.00	38.80	38.60
RJ-45 to RJ-45 Cat 5 Cable – **(4 pk)**	M to M	15	06-63-29	47.25	48.00	47.80	47.60
CAT 5 UTP CABLES – GREEN (Bulk Packs of 10)							
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M to M	1	04-21-47	38.35	38.95	38.85	38.75
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M to M	2	04-21-54	43.40	43.95	43.85	43.75
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M to M	3	04-21-61	49.55	51.95	51.50	51.00
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M to M	5	04-21-78	60.75	63.00	62.50	62.00
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M to M	10	06-17-94	89.05	89.95	89.70	89.45
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M to M	15	06-31-12	113.85	◗	114.95	114.50
CAT 5 UTP CABLES – GREEN (Bulk Packs of 25)							
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M to M	1	05-11-90	93.50	98.00	97.00	96.00
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M to M	2	05-12-00	103.25	◗	107.00	106.00
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M to M	3	05-12-17	122.50	◗	126.00	125.00
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M to M	5	05-12-24	148.50	◗	152.00	151.00
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M to M	10	06-53-74	218.85	◗	219.95	219.50
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M to M	15	06-94-91	278.85	◗	279.95	279.50
CAT 5 CABLE ACCESSORIES							
Connex RJ-45 – Through Coupler & Splitter – beige			95-81-38	7.60	8.75	8.50	8.25
Connex RJ-45 – fully shielded in-line Coupler			49-95-14	8.35	8.99	8.89	8.79
Connex Plastic non-releasable cable ties 4.6×203mm (100pk)			49-08-66	6.10	6.95	6.85	6.75
Connex Plastic Releasable cable ties 4.8×200mm (100pk)			49-37-02	9.35	9.95	9.85	9.75
Connex Velcro cable ties – black 17.5cm (24pk)			49-32-88	9.60	9.95	9.90	9.85
Connex Multicoloured Velcro cable ties 17.5cm (24pk)			49-55-20	9.60	9.95	9.90	9.85

OTHER ITEMS

FOR BULK 300M CAT 5 CABLE SEE PAGES 596, 597
FOR NETWORK CABLE GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

UTP (CAT 5) 10/100BASE-T ETHERNET CABLES

Connex

The **Connex** range of **Category 5 UTP cables** are available in a range of colours and lengths and are ideal for patching within standard 19" rack or wiring concentrators. Connex Category 5 UTP cables are also available in **packs of 4, 10 and 25** providing a cost effective option for larger wiring needs.

Cat 5E offers more headroom and enhanced data transfer speeds than regular Cat 5.



CAT 5 UTP CABLES – BLUE	TERMINATION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
RJ-45 to RJ-45 Cat 5 Cable	M-M	0.5	89-48-90	3.89	4.20	4.15	4.10	✂
RJ-45 to RJ-45 Cat 5 Cable	M-M	1	95-03-63	4.05	4.35	4.30	4.25	✂
RJ-45 to RJ-45 Cat 5 Cable	M-M	2	95-03-70	4.40	4.90	4.80	4.70	
RJ-45 to RJ-45 Cat 5 Cable	M-M	3	95-03-87	5.35	5.80	5.70	5.60	
RJ-45 to RJ-45 Cat 5 Cable	M-M	5	95-03-94	6.35	6.80	6.70	6.60	
RJ-45 to RJ-45 Cat 5 Cable	M-M	10	89-49-48	9.80	10.25	10.15	10.05	
RJ-45 to RJ-45 Cat 5 Cable	M-M	15	46-93-73	12.00	12.45	12.35	12.25	
CAT 5 UTP CABLES – BLUE (4 PACK)								
RJ-45 to RJ-45 Cat 5 Cable – **(4 pk)**	M-M	0.5	04-21-85	15.00	15.60	15.50	15.40	✂
RJ-45 to RJ-45 Cat 5 Cable – **(4 pk)**	M-M	1	04-22-26	16.20	16.80	16.70	16.60	✂
RJ-45 to RJ-45 Cat 5 Cable – **(4 pk)**	M-M	2	04-22-33	18.25	19.00	18.80	18.60	
RJ-45 to RJ-45 Cat 5 Cable – **(4 pk)**	M-M	3	04-22-64	21.25	22.00	21.80	21.60	
RJ-45 to RJ-45 Cat 5 Cable – **(4 pk)**	M-M	5	04-22-71	25.25	26.00	25.80	25.60	
RJ-45 to RJ-45 Cat 5 Cable – **(4 pk)**	M-M	10	04-22-02	38.25	39.00	38.80	38.60	
RJ-45 to RJ-45 Cat 5 Cable – **(4 pk)**	M-M	15	06-63-36	47.25	48.00	47.80	47.60	
CAT 5 UTP CABLES – BLUE (10 PACK)								
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M-M	1	04-22-88	38.25	38.85	38.75	38.65	✂
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M-M	2	04-22-95	43.45	43.95	43.85	43.75	
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M-M	3	04-23-05	49.55	51.95	51.50	51.00	
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M-M	5	04-23-12	61.30	63.00	62.50	62.00	
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M-M	10	06-17-39	89.05	89.95	89.70	89.45	
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M-M	15	06-70-38	113.85	➧	114.95	114.50	
CAT 5 UTP CABLES – BLUE (25 PACK)								
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M-M	1	05-12-31	94.00	98.00	97.00	96.00	
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M-M	2	05-12-48	104.00	➧	107.00	106.00	
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M-M	3	05-12-55	123.00	➧	126.00	125.00	
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M-M	5	05-12-62	149.00	➧	152.00	151.00	
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M-M	10	06-22-74	218.85	➧	219.95	219.50	
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M-M	15	06-49-56	278.85	➧	279.95	279.50	

OTHER ITEMS

FOR BULK 300M CAT 5 CABLE SEE PAGES 596, 597
FOR NETWORK CABLE GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

UTP (CAT 5) 10/100BASE-T ETHERNET CABLES

Connex

CAT 5 UTP CABLES – BLACK	TERMINATION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
RJ-45 to RJ-45 Cat 5 Cable	M-M	0.5	89-49-00	3.89	4.20	4.15	4.10
RJ-45 to RJ-45 Cat 5 Cable	M-M	1	89-49-62	4.05	4.35	4.30	4.25
RJ-45 to RJ-45 Cat 5 Cable	M-M	2	89-49-79	4.45	4.90	4.80	4.70
RJ-45 to RJ-45 Cat 5 Cable	M-M	3	89-49-93	5.35	5.80	5.70	5.60
RJ-45 to RJ-45 Cat 5 Cable	M-M	5	89-50-02	6.35	6.80	6.70	6.60
RJ-45 to RJ-45 Cat 5 Cable	M-M	10	89-49-55	9.80	10.25	10.15	10.05
RJ-45 to RJ-45 Cat 5 Cable	M-M	15	46-93-80	12.00	12.45	12.35	12.25
CAT 5 UTP CABLES – BLACK (Bulk Packs of 4)							
RJ-45 to RJ-45 Cat 5 Cable – **(4 pk)**	M-M	0.5	04-23-29	15.00	15.60	15.50	15.40
RJ-45 to RJ-45 Cat 5 Cable – **(4 pk)**	M-M	1	04-23-36	16.20	16.80	16.70	16.60
RJ-45 to RJ-45 Cat 5 Cable – **(4 pk)**	M-M	2	04-23-43	18.25	19.00	18.80	18.60
RJ-45 to RJ-45 Cat 5 Cable – **(4 pk)**	M-M	3	04-23-50	21.25	22.00	21.80	21.60
RJ-45 to RJ-45 Cat 5 Cable – **(4 pk)**	M-M	5	04-23-67	25.25	26.00	25.80	25.60
RJ-45 to RJ-45 Cat 5 Cable – **(4 pk)**	M-M	10	04-23-74	38.25	39.00	38.80	38.60
RJ-45 to RJ-45 Cat 5 Cable – **(4 pk)**	M-M	15	06-63-43	47.25	48.00	47.80	47.60
CAT 5 UTP CABLES – BLACK (Bulk Packs of 10)							
RJ-45 to RJ-45 Cat 5 Cable **(10 pk)**	M-M	1	04-23-98	38.35	38.95	38.85	38.75
RJ-45 to RJ-45 Cat 5 Cable **(10 pk)**	M-M	2	04-24-08	43.40	43.95	43.85	43.75
RJ-45 to RJ-45 Cat 5 Cable **(10 pk)**	M-M	3	04-24-15	49.65	51.95	51.50	51.00
RJ-45 to RJ-45 Cat 5 Cable **(10 pk)**	M-M	5	04-24-22	61.10	63.00	62.50	62.00
RJ-45 to RJ-45 Cat 5 Cable **(10 pk)**	M-M	10	06-12-55	89.05	89.95	89.70	89.45
RJ-45 to RJ-45 Cat 5 Cable **(10 pk)**	M-M	15	06-08-47	113.85	◗	114.95	114.50
CAT 5 UTP CABLES – BLACK (Bulk Packs of 25)							
RJ-45 to RJ-45 Cat 5 Cable **(25 pk)**	M-M	1	04-24-39	93.50	98.00	97.00	96.00
RJ-45 to RJ-45 Cat 5 Cable **(25 pk)**	M-M	2	04-24-46	103.50	◗	107.00	106.00
RJ-45 to RJ-45 Cat 5 Cable **(25 pk)**	M-M	3	04-24-53	122.50	◗	126.00	125.00
RJ-45 to RJ-45 Cat 5 Cable **(25 pk)**	M-M	5	04-24-60	135.92	◗	152.00	145.92
RJ-45 to RJ-45 Cat 5 Cable **(25 pk)**	M-M	10	06-39-07	218.85	◗	219.95	219.50
RJ-45 to RJ-45 Cat 5 Cable **(25 pk)**	M-M	15	06-27-80	278.85	◗	279.95	279.50
CAT 5 CABLE ACCESSORIES							
Connex RJ-45 – Through Coupler & Splitter – beige			95-81-38	7.60	8.75	8.50	8.25
Connex RJ-45 – fully shielded in-line Coupler			49-95-14	8.35	8.99	8.89	8.79
Connex Plastic non-releasable cable ties 4.6×203mm (100pk)			49-08-66	6.10	6.95	6.85	6.75
Connex Velcro cable ties – black 17.5cm (24pk)			49-32-88	9.60	9.95	9.90	9.85
Connex Multicoloured Velcro cable ties 17.5cm (24pk)			49-55-20	9.60	9.95	9.90	9.85

OTHER ITEMS

FOR BULK 300M CAT 5 CABLE SEE PAGES 596, 597
FOR NETWORK CABLE GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

(Continued)

UTP (CAT 5) 10/100BASE-T ETHERNET CABLES

Connex

CAT 5 UTP CABLES – Pink	TERMINATION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
RJ-45 to RJ-45 Cat 5 Cable	M-M	0.5	45-17-38	3.89	4.20	4.15	4.10
RJ-45 to RJ-45 Cat 5 Cable	M-M	1	45-17-45	4.05	4.35	4.30	4.25
RJ-45 to RJ-45 Cat 5 Cable	M-M	2	45-17-52	4.45	4.90	4.80	4.70
RJ-45 to RJ-45 Cat 5 Cable	M-M	3	45-17-69	5.35	5.80	5.70	5.60
RJ-45 to RJ-45 Cat 5 Cable	M-M	5	45-17-76	6.35	6.80	6.70	6.60
RJ-45 to RJ-45 Cat 5 Cable	M-M	10	45-17-83	9.78	10.25	10.15	10.05
RJ-45 to RJ-45 Cat 5 Cable	M-M	15	47-47-84	12.00	12.45	12.35	12.25
CAT 5 UTP CABLES – Pink (Bulk Packs of 4)							
RJ-45 to RJ-45 Cat 5 Cable – **(4 pk)**	M-M	0.5	06-00-71	15.00	15.60	15.50	15.40
RJ-45 to RJ-45 Cat 5 Cable – **(4 pk)**	M-M	1	06-00-88	16.20	16.80	16.70	16.60
RJ-45 to RJ-45 Cat 5 Cable – **(4 pk)**	M-M	2	06-00-95	18.25	19.00	18.80	18.60
RJ-45 to RJ-45 Cat 5 Cable – **(4 pk)**	M-M	3	06-01-05	21.25	22.00	21.80	21.60
RJ-45 to RJ-45 Cat 5 Cable – **(4 pk)**	M-M	5	06-01-12	25.25	26.00	25.80	25.60
RJ-45 to RJ-45 Cat 5 Cable – **(4 pk)**	M-M	10	06-01-29	38.25	39.00	38.80	38.60
RJ-45 to RJ-45 Cat 5 Cable – **(4 pk)**	M-M	15	06-63-50	47.25	48.00	47.80	47.60
CAT 5 UTP CABLES – Pink (Bulk Packs of 10)							
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M-M	1	06-01-36	38.35	38.95	38.85	38.75
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M-M	2	06-01-43	43.40	43.95	43.85	43.75
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M-M	3	06-01-50	49.65	51.95	51.50	51.00
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M-M	5	06-01-67	60.95	63.00	62.50	62.00
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M-M	10	06-36-86	89.05	89.95	89.70	89.45
RJ-45 to RJ-45 Cat 5 Cable – **(10 pk)**	M-M	15	06-98-38	113.85	◗	114.95	114.50
CAT 5 UTP CABLES – Pink (Bulk Packs of 25)							
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M-M	1	06-01-74	94.10	98.00	97.00	96.00
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M-M	2	06-01-81	103.50	◗	107.00	106.00
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M-M	3	06-01-98	122.50	◗	126.00	125.00
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M-M	5	06-02-08	148.50	◗	152.00	151.00
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M-M	10	06-53-76	218.85	◗	219.95	219.50
RJ-45 to RJ-45 Cat 5 Cable – **(25 pk)**	M-M	15	06-76-61	278.85	◗	279.95	279.50
CAT 5 CABLE ACCESSORIES							
Connex RJ-45 – Through Coupler & Splitter – beige			95-81-38	7.60	8.75	8.50	8.25
Connex RJ-45 – fully shielded in-line Coupler			49-95-14	8.35	8.99	8.89	8.79
Connex Plastic non-releasable cable ties 4.6×203mm (100pk)			49-08-66	6.10	6.95	6.85	6.75
Connex Plastic Releasable cable ties 4.8×200mm (100pk)			49-37-02	9.35	9.95	9.85	9.75
Connex Velcro cable ties – black 17.5cm (24pk)			49-32-88	9.60	9.95	9.90	9.85
Connex Multicoloured Velcro cable ties 17.5cm (24pk)			49-55-20	9.60	9.95	9.90	9.85

OTHER ITEMS

FOR BULK 300M CAT 5 CABLE SEE PAGES 596, 597
FOR NETWORK CABLE GUIDE SEE PAGE 599

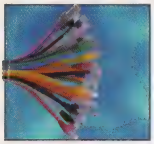
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

SNAGLESS UTP (CAT 5) 10/100BASE-T ETHERNET CABLES

BELKIN

The highest quality UTP Category 5 Patch cables in a **'snagless'** design and in a variety of colours.



FEATURES:
- Snagless design for easy installation.
- Moulded construction for the best strain relief.
- Premium quality connectors.
- Lifetime warranty.
- 4 pair, stranded Category 5 PVC cable.
- Colour hood and colour cable.
- Fully compliant with Category 5 specifications.

M=Male F=Female

NOW CAT5E COMPLIANT

CAT 5 UTP CABLES – GREY	TERMINATION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
RJ45–RJ45 Moulded Snagless Cable	M to M	0.5	86-94-78	3.90	4.20	4.15	4.10
RJ45-RJ45 Moulded Snagless Cable	M to M	1.0	49-71-19	4.00	4.40	4.30	4.20
RJ45–RJ45 Moulded Snagless Cable	M to M	2.0	86-95-26	5.05	5.49	5.39	5.29
RJ45–RJ45 Moulded Snagless Cable	M to M	3.0	86-95-71	5.90	6.50	6.40	6.30
RJ45–RJ45 Moulded Snagless Cable	M to M	5	46-40-31	8.40	8.99	8.90	8.80
RJ45–RJ45 Moulded Snagless Cable	M to M	10	46-38-74	11.40	11.99	11.90	11.80
RJ45–RJ45 Moulded Snagless Cable	M to M	15	86-96-74	13.40	13.99	13.90	13.80
RJ45–RJ45 Moulded Snagless Cable	M to M	30	45-04-92	25.05	25.49	25.39	25.29
CAT 5 UTP CABLES – GREY (4 pack)							
RJ45–RJ45 Moulded Snagless Cable	M to M	0.5	06-30-89	15.70	16.30	16.20	16.10
RJ45–RJ45 Moulded Snagless Cable	M to M	2.0	06-17-18	20.50	20.95	20.85	20.75
RJ45–RJ45 Moulded Snagless Cable	M to M	3.0	06-49-47	24.39	24.99	24.89	24.79
RJ45–RJ45 Moulded Snagless Cable	M to M	5	06-31-13	34.50	34.95	34.85	34.75
RJ45–RJ45 Moulded Snagless Cable	M to M	10	06-53-77	44.39	44.99	44.89	44.79
RJ45–RJ45 Moulded Snagless Cable	M to M	15	06-94-92	53.39	53.99	53.89	53.79
RJ45–RJ45 Moulded Snagless Cable	M to M	30	06-17-41	87.50	87.95	87.85	87.75
CAT 5 UTP CABLES – GREY (10 pack)							
RJ45–RJ45 Moulded Snagless Cable	M to M	0.5	06-53-48	39.50	39.95	39.85	39.75
RJ45–RJ45 Moulded Snagless Cable	M to M	2.0	06-70-22	49.50	49.95	49.85	49.75
RJ45–RJ45 Moulded Snagless Cable	M to M	3.0	06-12-46	57.39	57.99	57.89	57.79
RJ45–RJ45 Moulded Snagless Cable	M to M	5	06-70-39	74.50	74.95	74.85	74.75
RJ45–RJ45 Moulded Snagless Cable	M to M	10	06-22-75	99.40	♦	99.90	99.80
RJ45–RJ45 Moulded Snagless Cable	M to M	15	06-49-57	124.39	♦	124.89	124.79
RJ45–RJ45 Moulded Snagless Cable	M to M	30	06-12-56	194.35	♦	194.95	194.75
CAT 5 UTP CABLES – GREY (25 pack)							
RJ45–RJ45 Moulded Snagless Cable	M to M	0.5	06-94-77	99.55	99.99	99.89	99.79
RJ45–RJ45 Moulded Snagless Cable	M to M	2.0	06-22-63	116.35	♦	116.99	116.79
RJ45–RJ45 Moulded Snagless Cable	M to M	3.0	06-08-38	149.39	♦	149.89	149.79
RJ45–RJ45 Moulded Snagless Cable	M to M	5	06-08-48	177.35	♦	177.99	177.79
RJ45–RJ45 Moulded Snagless Cable	M to M	10	06-39-08	257.35	♦	257.99	257.79
RJ45–RJ45 Moulded Snagless Cable	M to M	15	06-27-81	317.35	♦	317.99	317.79
RJ45–RJ45 Moulded Snagless Cable	M to M	30	06-36-87	437.35	♦	437.99	437.79

OTHER ITEMS

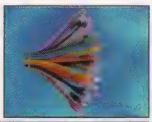
FOR BULK 300M CAT 5 CABLE SEE PAGES 596, 597
FOR NETWORK CABLE GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

SNAGLESS UTP (CAT 5) 10/100BASE-T ETHERNET CABLES

BELKIN

The highest quality UTP Cat 5 Patch cables in a **'snagless'** design and in a variety of colours.



FEATURES:

- Snagless design for easy installation.
- Moulded construction for the best strain relief.
- Premium quality connectors.
- Lifetime warranty.
- 4 pair, stranded Cat 5 PVC cable.
- Colour hood and colour cable.
- Fully compliant with Category 5 specifications.

NOW CAT5E COMPLIANT

M=Male F=Female

CAT 5 UTP CABLES – RED	TERMINATION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
RJ45–RJ45 Moulded Snagless Cable	M to M	0.5	86-95-02	3.90	4.20	4.15	4.10	✂
RJ45-RJ45 Moulded Snagless Cable	M to M	1	49-23-49	4.00	4.40	4.30	4.20	✂
RJ45–RJ45 Moulded Snagless Cable	M to M	2	86-95-57	5.05	5.49	5.39	5.29	
RJ45–RJ45 Moulded Snagless Cable	M to M	3	86-96-05	5.90	6.50	6.40	6.30	✂
RJ45–RJ45 Moulded Snagless Cable	M to M	5	46-40-48	8.40	8.99	8.90	8.80	✂
RJ45–RJ45 Moulded Snagless Cable	M to M	10	46-38-81	11.40	11.99	11.90	11.80	✂
RJ45–RJ45 Moulded Snagless Cable	M to M	15	86-97-08	13.40	13.99	13.90	13.80	✂
RJ45–RJ45 Moulded Snagless Cable	M to M	30	45-05-26	25.05	25.49	25.39	25.29	
CAT 5 UTP CABLES – RED (4 pack)								
RJ45–RJ45 Moulded Snagless Cable	M to M	0.5	06-38-97	15.70	16.30	16.20	16.10	✂
RJ45–RJ45 Moulded Snagless Cable	M to M	2.0	06-98-33	20.50	20.95	20.85	20.75	
RJ45–RJ45 Moulded Snagless Cable	M to M	3.0	06-64-64	24.39	24.99	24.89	24.79	✂
RJ45–RJ45 Moulded Snagless Cable	M to M	5	06-98-39	34.50	34.95	34.85	34.75	
RJ45–RJ45 Moulded Snagless Cable	M to M	10	06-53-78	44.39	44.99	44.89	44.79	✂
RJ45–RJ45 Moulded Snagless Cable	M to M	15	06-76-62	53.39	53.99	53.89	53.79	✂
RJ45–RJ45 Moulded Snagless Cable	M to M	30	06-17-96	87.50	87.95	87.85	87.75	
CAT 5 UTP CABLES – RED (10 pack)								
RJ45–RJ45 Moulded Snagless Cable	M to M	0.5	06-27-73	39.50	39.95	39.85	39.75	
RJ45–RJ45 Moulded Snagless Cable	M to M	2.0	06-53-54	49.50	49.95	49.85	49.75	
RJ45–RJ45 Moulded Snagless Cable	M to M	3.0	06-76-70	57.39	57.99	57.89	57.79	✂
RJ45–RJ45 Moulded Snagless Cable	M to M	5	06-31-14	74.50	74.95	74.85	74.75	
RJ45–RJ45 Moulded Snagless Cable	M to M	10	06-53-79	99.40	♦	99.90	99.80	✂
RJ45–RJ45 Moulded Snagless Cable	M to M	15	06-94-93	124.39	♦	124.89	124.79	✂
RJ45–RJ45 Moulded Snagless Cable	M to M	30	06-17-42	194.35	♦	194.95	194.75	
CAT 5 UTP CABLES – RED (25 pack)								
RJ45–RJ45 Moulded Snagless Cable	M to M	0.5	06-36-80	99.35	99.99	99.99	99.75	
RJ45–RJ45 Moulded Snagless Cable	M to M	2.0	06-76-57	116.35	♦	116.99	116.75	
RJ45–RJ45 Moulded Snagless Cable	M to M	3.0	06-78-01	156.35	♦	156.99	156.79	
RJ45–RJ45 Moulded Snagless Cable	M to M	5	06-70-40	177.35	♦	177.99	177.79	
RJ45–RJ45 Moulded Snagless Cable	M to M	10	06-22-76	257.35	♦	257.99	257.79	
RJ45–RJ45 Moulded Snagless Cable	M to M	15	06-49-58	317.35	♦	317.99	317.79	
RJ45–RJ45 Moulded Snagless Cable	M to M	30	06-12-57	437.35	♦	437.99	437.79	

OTHER ITEMS

FOR BULK 300M CAT 5 CABLE SEE PAGES 596, 597
FOR NETWORK CABLE GUIDE SEE PAGE 599

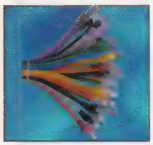
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

Lower prices on-line at action.com

SNAGLESS UTP (CAT 5) 10/100BASE-T ETHERNET CABLES

BELKIN

The highest quality UTP Category 5 Patch cables in a **'snagless'** design and in a variety of colours.



FEATURES:
- Snagless design for easy installation.
- Moulded construction for the best strain relief.
- Premium quality connectors.
- Lifetime warranty.
- 4 pair, stranded Category 5 PVC cable.
- Colour hood and colour cable.
- Fully compliant with Category 5 specifications.

NOW CAT5E COMPLIANT

M=Male F=Female

CAT 5 UTP CABLES – YELLOW	TERMINATION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
RJ45–RJ45 Moulded Snagless Cable	M to M	0.5	86-95-19	3.90	4.20	4.15	4.10
RJ45–RJ45 Moulded Snagless Cable	M to M	2	86-95-64	4.89	5.49	5.39	5.29
RJ45–RJ45 Moulded Snagless Cable	M to M	3	86-96-12	5.90	6.50	6.40	6.30
RJ45–RJ45 Moulded Snagless Cable	M to M	5	46-40-55	8.40	8.99	8.90	8.80
RJ45–RJ45 Moulded Snagless Cable	M to M	10	46-39-22	11.40	11.99	11.90	11.80
RJ45–RJ45 Moulded Snagless Cable	M to M	15	86-97-15	13.40	13.99	13.90	13.80
RJ45–RJ45 Moulded Snagless Cable	M to M	30	45-05-33	25.05	25.49	25.39	25.29
CAT 5 UTP CABLES – YELLOW (4 pack)							
RJ45–RJ45 Moulded Snagless Cable	M to M	0.5	06-94-78	15.70	16.30	16.20	16.10
RJ45–RJ45 Moulded Snagless Cable	M to M	2	06-22-64	20.60	20.95	20.85	20.85
RJ45–RJ45 Moulded Snagless Cable	M to M	3	06-08-39	24.39	24.99	24.89	24.79
RJ45–RJ45 Moulded Snagless Cable	M to M	5	06-08-49	34.50	34.95	34.85	34.75
RJ45–RJ45 Moulded Snagless Cable	M to M	10	06-39-09	44.39	44.99	44.89	44.79
RJ45–RJ45 Moulded Snagless Cable	M to M	15	06-27-82	53.39	53.99	53.89	53.79
RJ45–RJ45 Moulded Snagless Cable	M to M	30	06-36-88	87.50	87.95	87.85	87.75
CAT 5 UTP CABLES – YELLOW (10 pack)							
RJ45–RJ45 Moulded Snagless Cable	M to M	0.5	06-17-20	39.50	39.95	39.85	39.75
RJ45–RJ45 Moulded Snagless Cable	M to M	2	06-49-48	49.50	49.95	49.85	49.75
RJ45–RJ45 Moulded Snagless Cable	M to M	3	06-38-98	57.39	57.99	57.89	57.79
RJ45–RJ45 Moulded Snagless Cable	M to M	5	06-98-40	74.40	74.95	74.85	74.65
RJ45–RJ45 Moulded Snagless Cable	M to M	10	06-53-80	99.40	➧	99.90	99.80
RJ45–RJ45 Moulded Snagless Cable	M to M	15	06-76-63	124.39	➧	124.89	124.79
RJ45–RJ45 Moulded Snagless Cable	M to M	30	06-64-66	194.35	➧	194.95	194.75
CAT 5 UTP CABLES – YELLOW (25 pack)							
RJ45–RJ45 Moulded Snagless Cable	M to M	0.5	06-70-23	99.65	99.99	99.99	99.89
RJ45–RJ45 Moulded Snagless Cable	M to M	2	06-12-47	116.35	➧	116.99	116.79
RJ45–RJ45 Moulded Snagless Cable	M to M	3	06-27-74	149.39	➧	149.89	149.79
RJ45–RJ45 Moulded Snagless Cable	M to M	5	06-76-71	177.35	➧	177.99	177.79
RJ45–RJ45 Moulded Snagless Cable	M to M	10	06-78-02	257.35	➧	257.99	257.79
RJ45–RJ45 Moulded Snagless Cable	M to M	15	06-82-28	317.35	➧	317.99	317.79
RJ45–RJ45 Moulded Snagless Cable	M to M	30	06-15-19	437.35	➧	437.99	437.79

OTHER ITEMS

FOR BULK 300M CAT 5 CABLE SEE PAGES 596, 597
FOR NETWORK CABLE GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

SNAGLESS UTP (CAT 5) 10/100BASE-T ETHERNET CABLES

BELKIN

CAT 5 UTP CABLES – PINK	TERMINATION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
RJ45–RJ45 Moulded Snagless Cable	M to M	0.5	49-56-17	3.90	4.20	4.15	4.10	NEW
RJ45–RJ45 Moulded Snagless Cable	M to M	1	49-96-55	4.00	4.40	4.30	4.20	NEW
RJ45–RJ45 Moulded Snagless Cable	M to M	2	49-71-60	4.89	5.49	5.39	5.29	NEW
RJ45–RJ45 Moulded Snagless Cable	M to M	3	49-23-87	5.90	6.50	6.40	6.30	NEW
RJ45–RJ45 Moulded Snagless Cable	M to M	5	49-50-45	8.40	8.99	8.90	8.80	NEW
RJ45–RJ45 Moulded Snagless Cable	M to M	10	49-13-43	11.40	11.99	11.90	11.80	NEW
RJ45–RJ45 Moulded Snagless Cable	M to M	15	49-09-17	13.40	13.99	13.90	13.80	NEW
RJ45–RJ45 Moulded Snagless Cable	M to M	30	49-39-60	24.89	25.49	25.39	25.29	NEW
CAT 5 UTP CABLES – BLUE								
RJ45–RJ45 Moulded Snagless Cable	M to M	0.5	86-94-85	3.90	4.20	4.15	4.10	✂
RJ45–RJ45 Moulded Snagless Cable	M to M	1	49-50-20	4.00	4.40	4.30	4.20	✂
RJ45–RJ45 Moulded Snagless Cable	M to M	2	86-95-33	5.05	5.49	5.39	5.29	
RJ45–RJ45 Moulded Snagless Cable	M to M	3	86-95-88	5.90	6.50	6.40	6.30	✂
RJ45–RJ45 Moulded Snagless Cable	M to M	5	46-40-17	8.40	8.99	8.90	8.80	✂
RJ45–RJ45 Moulded Snagless Cable	M to M	10	46-38-98	11.40	11.99	11.90	11.80	✂
RJ45–RJ45 Moulded Snagless Cable	M to M	15	86-96-81	13.40	13.99	13.90	13.80	✂
RJ45–RJ45 Moulded Snagless Cable	M to M	30	45-05-02	25.05	25.49	25.39	25.29	
CAT 5 UTP CABLES – GREEN								
RJ45–RJ45 Moulded Snagless Cable	M to M	0.5	86-94-92	3.90	4.20	4.15	4.10	✂
RJ45–RJ45 Moulded Snagless Cable	M to M	2	86-95-40	5.35	5.79	5.69	5.59	
RJ45–RJ45 Moulded Snagless Cable	M to M	3	86-95-95	5.90	6.50	6.40	6.30	✂
RJ45–RJ45 Moulded Snagless Cable	M to M	5	46-40-24	8.40	8.99	8.90	8.80	✂
RJ45–RJ45 Moulded Snagless Cable	M to M	10	46-39-08	11.40	11.99	11.90	11.80	✂
RJ45–RJ45 Moulded Snagless Cable	M to M	15	86-96-98	13.40	13.99	13.90	13.80	✂
RJ45–RJ45 Moulded Snagless Cable	M to M	30	45-05-19	25.05	25.49	25.39	25.29	
CAT 5 UTP CABLES – BLACK								
RJ45–RJ45 Moulded Snagless Cable	M to M	0.5	44-30-14	3.90	4.20	4.15	4.10	✂
RJ45–RJ45 Moulded Snagless Cable	M to M	2	44-30-21	5.05	5.49	5.39	5.29	
RJ45–RJ45 Moulded Snagless Cable	M to M	3	44-30-38	5.90	6.50	6.40	6.30	✂
RJ45–RJ45 Moulded Snagless Cable	M to M	5	46-40-00	8.40	8.99	8.90	8.80	✂
RJ45–RJ45 Moulded Snagless Cable	M to M	10	46-39-15	11.40	11.99	11.90	11.80	✂
RJ45–RJ45 Moulded Snagless Cable	M to M	15	44-30-52	13.40	13.99	13.90	13.80	✂
RJ45–RJ45 Moulded Snagless Cable	M to M	30	45-05-40	25.05	25.49	25.39	25.29	

OTHER ITEMS

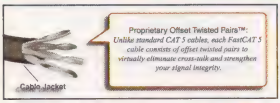
FOR BULK 300M CAT 5 CABLE SEE PAGES 596–597
FOR NETWORK CABLE GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

SNAGLESS UTP FAST CAT 5 PATCH CABLES

BELKIN







Snagless mold protects tab during installation.

Model	Max. Data Speed	Frequency Range	Ethernet 10/100Base-T	ATM and Future Systems
FastCAT5	155Mbps+	350MHz+	Yes	Yes
Standard CAT5	100Mbps	100MHz	Yes	No

FastCAT5

PREMIUM PATCH CABLE



FastCAT™ 5 is the ultimate LAN cable. Rated beyond 350MHz and over 3 times the CAT5 standard, FastCAT 5 provides you with flawless transmissions at the highest speeds.

Each FastCAT 5 cable has an increased frequency range of 250%, providing the bandwith necessary to reliably deliver your Voice, Video and Data well beyond today's 100Mbps systems.

The result is the **Best Category 5 cabling** for today's networks, and the technology to support the higher speed demands of the future. Protect your installations against constant rewiring. Don't let faulty cabling cripple your system. Maximize your networks' speed and reliability with FastCAT 5. Available in a choice of colours including grey, blue, green, red and black. (Please call if you require colours not listed below). Includes Lifetime Product Warranty.

FASTCAT5 PATCH CABLE – GREY (1 pack)	TERMINATION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
FastCat5 Patch Cable, snagless Grey	M-M	1m	44-79-48	5.05	5.49	5.39	5.29
FastCat5 Patch Cable, snagless Grey	M-M	2.1m	44-96-09	7.05	7.49	7.39	7.29
FastCat5 Patch Cable, snagless Grey	M-M	4.1m	44-79-55	8.05	8.49	8.39	8.29
FastCat5 Patch Cable, snagless Grey	M-M	7.5m	44-79-62	11.55	11.99	11.89	11.79
FastCat5 Patch Cable, snagless Grey	M-M	15m	44-79-79	19.55	19.99	19.89	19.79
FASTCAT5 PATCH CABLE – GREY (10 pack)							
FastCat5 Patch Cable, snagless Grey	M-M	1m	06-22-77	49.05	49.99	49.70	49.45
FastCat5 Patch Cable, snagless Grey	M-M	2.1m	06-49-59	69.05	69.99	69.70	69.45
FastCat5 Patch Cable, snagless Grey	M-M	4.1m	06-12-58	79.05	79.99	79.70	79.45
FastCat5 Patch Cable, snagless Grey	M-M	7.5m	06-08-50	99.05	99.99	99.70	99.45
FastCat5 Patch Cable, snagless Grey	M-M	15m	06-39-10	189.30	▶	189.99	189.70
FASTCAT5 PATCH CABLE – BLUE (1 pack)							
FastCat5 Patch Cable, snagless Blue	M-M	1m	44-79-86	5.05	5.49	5.39	5.29
FastCat5 Patch Cable, snagless Blue	M-M	2.1m	44-96-16	7.05	7.49	7.39	7.29
FastCat5 Patch Cable, snagless Blue	M-M	4.1m	44-79-93	8.05	8.49	8.39	8.29
FastCat5 Patch Cable, snagless Blue	M-M	7.5m	44-80-02	11.55	11.99	11.89	11.79
FastCat5 Patch Cable, snagless Blue	M-M	15m	44-80-19	19.55	19.99	19.89	19.79
FASTCAT5 PATCH CABLE – BLUE (10 pack)							
FastCat5 Patch Cable, snagless Blue	M-M	1m	06-27-83	49.05	49.99	49.70	49.45
FastCat5 Patch Cable, snagless Blue	M-M	2.1m	06-98-41	69.05	69.99	69.70	69.45
FastCat5 Patch Cable, snagless Blue	M-M	4.1m	06-53-81	79.05	79.99	79.70	79.45
FastCat5 Patch Cable, snagless Blue	M-M	7.5m	06-76-64	99.05	99.99	99.70	99.45
FastCat5 Patch Cable, snagless Blue	M-M	15m	06-64-67	189.30	▶	189.99	189.70

OTHER ITEMS

FOR NETWORK CABLE GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶ Save £££'s!
▶▶ Check live stock
▶▶ Track order status

SNAGLESS UTP FAST CAT 5 PATCH CABLES

BELKIN

NEW BUNDLES and LENGTHS Now Available.

FASTCAT5 PATCH CABLE – RED (1 pack)	TERMINATION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
FastCat5 Patch Cable, snagless Red	M-M	1m	49-55-97	5.05	5.49	5.39	5.29
FastCat5 Patch Cable, snagless Red	M-M	2.1m	44-96-23	7.05	7.49	7.39	7.29
FastCat5 Patch Cable, snagless Red	M-M	4.1m	44-80-33	8.05	8.49	8.39	8.29
FastCat5 Patch Cable, snagless Red	M-M	7.5m	44-80-40	11.55	11.99	11.89	11.79
FastCat5 Patch Cable, snagless Red	M-M	15m	44-80-57	19.55	19.99	19.89	19.79
FASTCAT5 PATCH CABLE – RED (10 pack)							
FastCat5 Patch Cable, snagless Red	M-M	1m	06-76-72	49.05	49.99	49.70	49.45
FastCat5 Patch Cable, snagless Red	M-M	2.1m	06-78-03	69.05	69.99	69.70	69.45
FastCat5 Patch Cable, snagless Red	M-M	4.1m	06-82-29	79.05	79.99	79.70	79.45
FastCat5 Patch Cable, snagless Red	M-M	7.5m	06-15-21	99.05	99.99	99.70	99.45
FastCat5 Patch Cable, snagless Red	M-M	15m	06-62-54	189.05	◗	189.70	189.45
FASTCAT5 PATCH CABLE – GREEN (1 pack)							
FastCat5 Patch Cable, snagless Green	M-M	2m	49-32-28	6.15	6.90	6.70	6.50
FastCat5 Patch Cable, snagless Green	M-M	3m	49-54-78	7.55	8.30	8.10	7.90
FastCat5 Patch Cable, snagless Green	M-M	5m	49-95-59	8.85	9.60	9.40	9.20
FastCat5 Patch Cable, snagless Green	M-M	10m	49-19-13	18.05	18.80	18.60	18.40
FastCat5 Patch Cable, snagless Green	M-M	15m	49-71-26	21.05	21.80	21.60	21.40
FASTCAT5 PATCH CABLE – YELLOW (1 pack)							
FastCat5 Patch Cable, snagless Yellow	M-M	2m	49-70-90	6.05	6.90	6.70	6.50
FastCat5 Patch Cable, snagless Yellow	M-M	3m	49-19-12	7.55	8.30	8.10	7.90
FastCat5 Patch Cable, snagless Yellow	M-M	5m	49-23-23	8.85	9.60	9.40	9.20
FastCat5 Patch Cable, snagless Yellow	M-M	10m	49-55-37	18.05	18.80	18.60	18.40
FastCat5 Patch Cable, snagless Yellow	M-M	15m	49-96-05	21.05	21.80	21.60	21.40
FASTCAT5 PATCH CABLE – BLACK (1 pack)							
FastCat5 Patch Cable, snagless Black	M-M	2m	49-50-01	6.05	6.90	6.70	6.50
FastCat5 Patch Cable, snagless Black	M-M	5m	49-13-04	8.85	9.60	9.40	9.20
CAT5 CABLE ACCESSORIES							
Connex RJ-45 – Through Coupler & Splitter – beige			95-81-38	7.60	8.75	8.50	8.25
Connex RJ-45 – fully shielded in-line Coupler			49-95-14	8.35	8.99	8.89	8.79
Connex Plastic non-releasable cable ties 4.6×203mm (100 pack)			49-08-66	6.10	6.95	6.85	6.75
Connex Plastic Releasable cable ties 4.8×200m (100 pack)			49-37-02	9.35	9.95	9.85	9.75
Connex Velcro cable ties – black 17.5cm (24 pack)			49-32-88	9.60	9.95	9.90	9.85
Connex Multicoloured Velcro cable ties 17.5cm (24 pack)			49-55-20	9.60	9.95	9.90	9.85

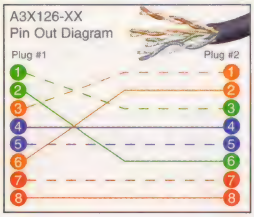
OTHER ITEMS FOR NETWORK CABLE GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

CROSSOVER (CAT 5) CONNECTION CABLES

Connex





These Connex Crossover Cat 5 Connection Cables are used for connecting hubs together and are wired in a crossed configuration.

CROSSOVER CAT 5 CABLES – GREY	TERMINATION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Crossover RJ-45 to RJ-45 Cat 5 Cable	M-M	1	89-66-23	6.45	6.89	6.79	6.69
Crossover RJ-45 to RJ-45 Cat 5 Cable	M-M	2	89-66-30	6.80	7.25	7.15	7.05
Crossover RJ-45 to RJ-45 Cat 5 Cable	M-M	3	89-66-47	7.25	7.70	7.60	7.50
Crossover RJ-45 to RJ-45 Cat 5 Cable	M-M	5	89-66-54	12.05	12.49	12.39	12.29
Crossover RJ-45 to RJ-45 Cat 5 Cable	M-M	10	46-70-07	18.45	18.89	18.79	18.69
Crossover RJ-45 to RJ-45 Cat 5 Cable	M-M	15	46-70-14	21.55	21.99	21.89	21.79
Crossover RJ-45 to RJ-45 Cat 5 Cable	M-M	25	49-19-42	24.35	24.95	24.85	24.75
CROSSOVER CAT 5 CABLES – GREY WITH RED BOOT							
Crossover RJ-45 to RJ-45 Cat 5 Cable	M-M	1	46-77-84	6.50	6.95	6.85	6.75
Crossover RJ-45 to RJ-45 Cat 5 Cable	M-M	2	46-77-91	7.00	7.45	7.35	7.25
Crossover RJ-45 to RJ-45 Cat 5 Cable	M-M	3	46-78-18	7.30	7.75	7.65	7.55
Crossover RJ-45 to RJ-45 Cat 5 Cable	M-M	5	46-78-25	11.20	12.59	12.29	11.99
CROSSOVER CAT 5 CABLES – GREY WITH BLUE BOOT							
Crossover RJ-45 to RJ-45 Cat 5 Cable	M-M	1	46-79-04	6.50	6.95	6.85	6.75
Crossover RJ-45 to RJ-45 Cat 5 Cable	M-M	2	46-79-35	7.00	7.45	7.35	7.25
Crossover RJ-45 to RJ-45 Cat 5 Cable	M-M	3	46-80-37	7.30	7.75	7.65	7.55
Crossover RJ-45 to RJ-45 Cat 5 Cable	M-M	5	46-80-44	11.20	12.59	12.29	11.99

RJ-45 (CAT 5) THROUGH COUPLERS/SPLITTERS

Connex


95-81-38


49-95-14

These Cat 5 couplers allow you to connect two (49-95-14 and 17-08-38) or three (95-81-38/95-81-45) Cat 5 Patch cables together and still maintaining Category 5 performance.

DESCRIPTION	QUANTITY	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
RJ-45 Through Coupler & Splitter – Biege	1	95-81-38	7.60	8.75	8.50	8.25
RJ-45 Through Coupler & Splitter – Biege	25	95-81-45	99.35	99.95	99.85	99.75
RJ-45 STP in-line Coupler – Fully Shielded	1	49-95-14	8.35	8.99	8.89	8.79
RJ-45 UTP In-line Coupler – White	1	17-08-38	6.45	6.99	6.89	6.79

OTHER ITEMS

FOR CAT 5 CABLE SEE PAGES 599–614
FOR NETWORK CABLE GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CABLE TIES

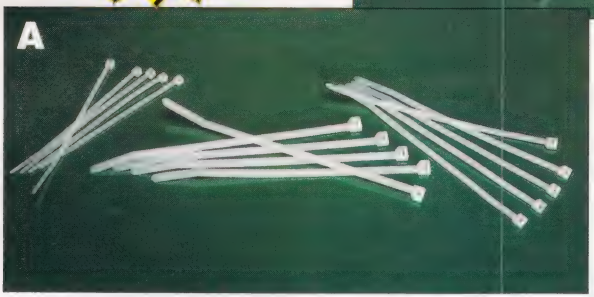
Connex

Non-Releasable Cable Ties

The nylon non-releasable cable ties are available in a number of different lengths and widths to cater for most standard computer cable diameters.

FOR A RANGE OF CAT 5 CABLES SEE PAGES 596–614





Releasable Cable Ties

The re-usable cable ties are stocked in common length requirements.

Marker Cable Ties

The marker cable ties provide a useful method of identifying cable(s) through a rectangular area on the tie that can be marked up with an indelible pen.

DESCRIPTION	PIC REF	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NON-RELEASABLE CABLE TIES						
Cable Tie – 3.2×142mm (**100/pack**)	B	49-12-78	5.30	5.95	5.85	5.75
Cable Tie – 4.6×203mm (**100/pack**)	B	49-08-66	6.10	6.95	6.85	6.75
Cable Tie – 3.6×292mm (**100/pack**)	B	49-39-17	7.30	7.95	7.85	7.75
RELEASABLE CABLE TIES						
Cable Tie 3.6×140mm (**100/pack**)	—	49-27-94	7.85	8.49	8.39	8.29
Cable Tie 4.8×200mm (**100/pack**)	—	49-37-02	9.35	9.95	9.85	9.75
MARKER CABLE TIES – 8×28mm MARKING AREA						
Marker Cable Tie – 4.8×190mm (**100/pack**)	A	49-98-49	9.35	9.95	9.85	9.75
Marker Cable Tie 4.8×270mm (**100/pack**)	A	49-54-29	10.35	10.95	10.85	10.75
MARKER CABLE TIES – 20.4×9.1mm MARKING AREA						
Marker Cable Tie – 2.5×105mm (**100/pack**)	A	49-76-66	7.00	7.49	7.39	7.29
Marker Cable Tie 2.5×205mm (**100/pack**)	A	49-64-73	8.35	8.95	8.85	8.75

OTHER ITEMS

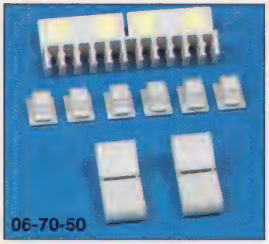
FOR CAT 5 CABLES SEE PAGES 599–614
FOR NETWORK CABLES GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

CABLE MANAGEMENT

BELKIN Connex

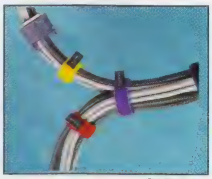


Cable Clips
PACK CONTENTS
- 10 corner mounts.
- 10 bundler clips.
- 30 routing clips.
- 60 self-adhesive identification labels.
- Keep cables organised and neat.

Jumbo Cable Ties
- Four 49.5cm self-attaching nylon ties.
- Available in assorted colours – Red, Navy, Yellow and purple **(Cat No 49-95-92)**.
- For gathering large bundles of cables, cords or wires of any kind.



Cable Ties (49-32-88, 49-55-20)
- Six 17.15cm self-attaching nylon ties.
- Available in assorted colours (red, navy, yellow, green and black) and all black.
- For gathering cables, cords or wires of any kind.

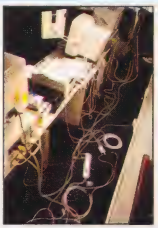


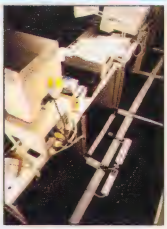
DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Belkin Cable Clips (**5 pack**)	06-70-50	18.30	18.75	18.65	18.55
Belkin Velcro Cable Ties – various colours 15cm (**18 pack**)	06-62-88	15.35	15.95	15.85	15.75
Connex Velcro Cable Ties – Black 17.5cm (**24 pack**)	49-32-88	9.60	9.95	9.90	9.85
Connex Multicoloured Velcro Cable Ties 17.5cm (**24 pack**)	49-55-20	9.60	9.95	9.90	9.85
Connex Multicoloured Jumbo Cable ties 49.5cm (**12 pack**)	49-95-92	12.45	12.95	12.85	12.75

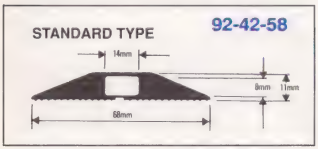
RUBBER CABLE PROTECTOR SYSTEMS

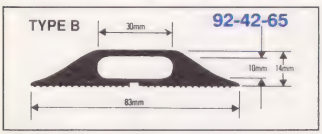
VULCASCOT

Vulcascot has a comprehensive range of cable protectors designed to protect loose cables.
Snap Fit – Protects cables and prevents tripping and falling.
Safe and simple – 'snap' open the membrane in the base, push in the cables and lay flat.









Industrial Sections – tough industrial cable protectors for all types of industrial applications including:
- Data and power cables.
- Warehouse.
- Building sites.
- UV stabilised for outdoor use.
- Colour: black.

Features:
- In the event of fire, low smoke non toxic fume emission levels.
- Essentially halogen free.
- Conforms to BS476 Part 7, Class 3.
- Superior lay flat qualities.
- UV stablised for total durability.

DESCRIPTION VULCASCOT	LENGTH (m)	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Vulcascot Cable Bridge – **Standard Type**	9.0	92-42-58	48.29	49.95	49.75	49.49
Vulcascot Cable Bridge – **Type B**	9.0	92-42-65	58.79	59.90	59.75	59.49

OTHER ITEMS

FOR CABLES & CONNECTORS GUIDE SEE PAGE 565

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

GUIDE TO – ETHERNET INSTALLATION



FASTCAT 5 RJ-45 PATCH CABLES

FastCAT™ 5 is the ultimate LAN cable. Rated beyond 350MHz and over three times the Category 5 standard, each FastCAT™ 5 cable has an increased frequency range of 250%.

CATEGORY 5 STANDARD RJ45 PATCH CABLES

Action offers Ethernet 10/100Base-T patch cables and related products for any 10/100Base-T UTP installation. All comply with IEEE-802.3 specifications.
(See pages 623–632 for Cat 5 cables).

CROSS-OVER PATCH CABLES

The Cross-Over cables are designed to connect Hub to Hub or PC to PC. They come with different coloured strain relief molding and a sticker to indicate the nature of the cable.

FACEPLATES & SURFACE MOUNT BOXES

These unloaded Keystone Faceplates allow multiple variations of Keystone Jacks to be added to create a faceplate to meet specific needs.

SURFACE MOUNT BOX FOR KEYSTONE JACKS

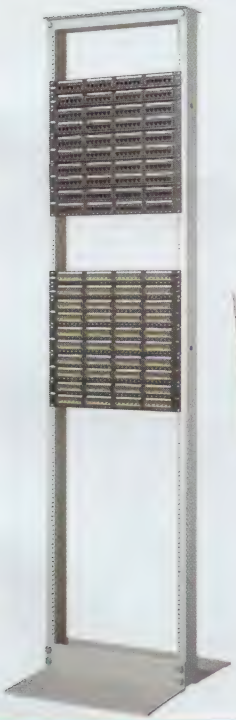
The Surface Mount Box is an easy way to install a network outlet. Simply punchdown the wiring into any Keystone jack and them insert the Keystone jack into the box.

CATEGORY 5 RJ45 KEYSTONE JACKS

The Keystone Jacks will install into any Keystone faceplates or surface mount box.

CATEGORY 5 PATCH PANELS

Action carries an entire range of Category 5 rated patch panels for network installation applications. These panels are available in 12, 24 and 48-port models. Both rack and wall mount models are available.







See pages 626–630 for Network Furniture

OTHER ITEMS FOR CABLES GUIDE SEE PAGE 565

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

MICRO MODULAR TELEPHONE ACCESSORIES — AVRO PACIFIC

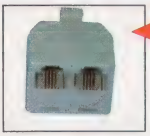


Avro Pacific System 2000
Normally to install a telephone extension socket, the wires have to be striped, positioned and terminated with IDC or screw methods – NOT ANYMORE.
Each extension socket has a built-in micro modular plug for instant connection. Cables insert into the plug without stripping. Telephone cable is so thin you can wallpaper or paint over it: 1mm thick.

Telephone Cable Reelers
World's most compact telephone cable reelers.
Also for use with modems. Cable is: 1mm thick. Available in: 10, 15 and 20m.

Micro Telephone extension lead
Extension leads are also 1mm thick and come in 5, 10 and 15m. Secondary extension kits are available in 15 and 20m.

49-39-00
49-36-87
49-27-78



Couplers
Same gender back to back connectors
- Micro Jack to Micro Jack **(49-39-00)**
- Micro Jack to BT Jack **(49-36-87)**
- BT Jack to BT Jack **(49-27-78)**

DESCRIPTION	AVRO PART NO	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DIY Extension Kit (10m)	2001	49-31-10	6.65	6.95	6.90	6.85
DIY Extension Kit (15m)	2002	49-53-71	7.65	7.95	7.90	7.85
DIY Extension Kit (20m)	2003	49-17-28	8.65	8.95	8.90	8.85
Extension Lead 5m	2006	49-49-57	4.20	4.49	4.45	4.40
Extension Lead 10m	2007	49-12-56	6.15	6.49	6.40	6.35
Extension Lead 15m	2008	49-08-45	7.20	7.49	7.45	7.40
Extension Reeler 3m Travel	2023	49-18-06	7.60	8.49	8.25	7.99
Extension Reeler 10m Compact	2024	49-39-01	8.70	8.99	8.95	8.90
Extension Reeler 15m Compact	2025	49-27-79	10.55	10.99	10.89	10.79
Extension Reeler 20m Compact	2026	49-36-88	12.55	12.99	12.89	12.79
Secondary 15m Extension Kit	2004	49-70-31	6.70	6.99	6.95	6.90
Secondary 20m Extension Kit	2005	49-22-71	8.35	8.95	8.85	8.75
Micro to Micro Coupler	2018	49-39-00	3.65	3.95	3.90	3.85
Micro to UK Coupler	2020	49-36-87	3.60	3.89	3.85	3.80
UK to UK Coupler	2019	49-27-78	3.60	3.89	3.85	3.80
Adhesive Pads	2030	49-64-67	3.65	3.95	3.90	3.85

OTHER ITEMS
FOR NETWORKING PRODUCT INDEX SEE PAGES 638, 639

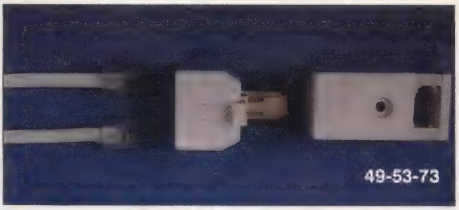
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MICRO MODULAR TELEPHONE ACCESSORIES — AVRO PACIFIC

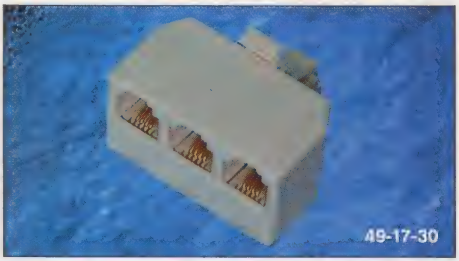
A unique integrated set of modular telephone accessories, covering all aspects of telephone connections.

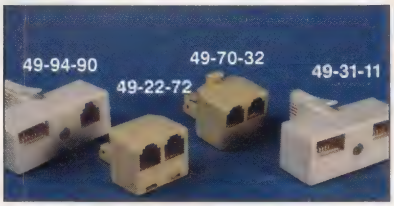
Line Jack Unit
BT jack on the front and a micro jack on the bottom. Accepts the micro plug fitted to any micro cable, doubler etc.

Triplers
Micro plug and 3 micro jacks (distribution connector) BT plug and BT jacks – for general telephone requirements.









Doublers
There are 4 types available to suit all needs:
- UK Micro and UK doubler (UK plug to 1 Micro and 1 UK Jack).
- Micro 3-way adaptor (3 Micro Jacks).
- Micro plug and two Micro Jacks (Micro plug to 2 Micro Jacks).
- UK doubler (BT plug to 2 BT Jacks).

DESCRIPTION	AVRO PART NO	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
UK plug with a Micro and UK Jack	2012	49-94-90	3.70	3.98	3.95	3.90
Triple Micro Jack Adaptor	2015	49-22-72	5.45	5.75	5.70	5.65
UK Triple Adaptor	2014	49-70-32	5.20	5.49	5.45	5.40
UK Double Adaptor	2010	49-31-11	3.60	3.95	3.85	3.80
Micro Line Jack Unit	2009	49-17-96	3.70	3.99	3.95	3.90
Micro Double Adaptor	2011	49-53-73	3.65	3.95	3.90	3.85
Micro Triple Adaptor	2013	49-17-30	5.20	5.49	5.45	5.40
Micro 5 Way Adaptor (5RJF-1RJM) (Pic not shown)	2016	49-49-58	7.00	7.29	7.25	7.20
Micro to UK Convertor (BTM-RJF)	2021	49-98-38	3.60	3.89	3.85	3.80
UK to Micro Convertor (UK Universal) (BTM-BJM)	2022	49-53-72	3.70	3.98	3.95	3.90
6 × Micro Plugs (6P4C) plus Micro Impact Tool (Picture not shown)	2027	49-98-39	3.60	3.89	3.85	3.80
10 × Micro Plugs (6P4C) plus Crimping Tool (Picture not shown)	2028	49-53-74	9.20	10.50	10.25	10.00
10 × Micro Plugs (6P4C) (Picture not shown)	2029	49-76-61	3.15	3.49	3.39	3.35

OTHER ITEMS
FOR CABLE MANAGEMENT PRODUCTS SEE PAGES 638, 639

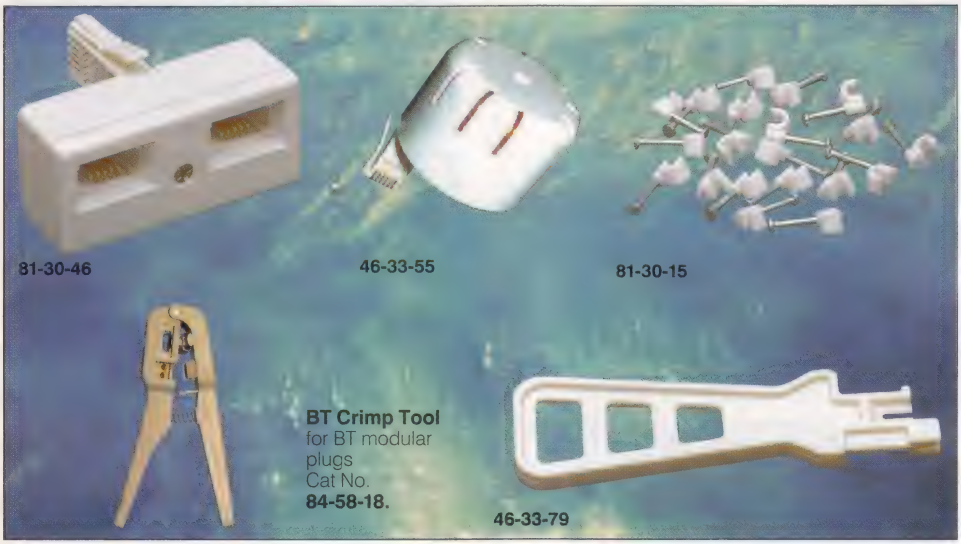
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

TELEPHONE ADAPTORS & CONNECTORS

Connex

On this page **Action** features a range of accessories to help you maximise and expand your telephone capabilities within the office or home. Extension leads are available in lengths of up to 15m to allow you to position the phone at distances away from the wall socket.



DESCRIPTION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
BT Socket RJ11 Male (2 Wire) – BT Plug Male	2.0	81-90-95	6.65	6.95	6.90	6.85
BT Socket RJ11 Male (4 Wire) – BT Plug Male	2.0	85-55-47	7.50	7.99	7.89	7.79
RJ11 telephone socket to UK style plug adaptor	—	85-97-01	4.55	4.99	4.89	4.79
BT431 4 way plugs (**10 pack**)	—	81-30-15	8.10	8.95	8.75	8.50
BT431 4 way plugs (**30 pack**)	—	04-93-46	19.10	19.95	19.75	19.50
BT631 6 way plugs (**10 pack**)	—	81-30-22	8.55	8.99	8.89	8.79
Telephone coupler to join 2 cables	—	81-30-39	6.35	6.79	6.69	6.59
2-way T adaptor	—	81-30-46	5.45	5.89	5.79	5.69
4-way T adaptor	—	81-30-53	9.20	9.75	9.65	9.50
UK Telephone cable clips 3.5mm (**25 pack**)	–	46-33-17	4.32	4.50	4.45	4.40
UK Telephone extension ringer	–	46-33-55	9.55	9.99	9.89	9.79
UK Telephone cable insertion tools	–	46-33-79	9.39	9.99	9.89	9.79
BT Modular plug crimp tool	–	84-58-18	19.10	19.99	19.75	19.50
Plastic crimping tool for BT431/631 plugs	—	81-30-60	16.80	17.95	17.50	17.25

OTHER ITEMS

FOR CABLE MANAGEMENT PRODUCTS SEE PAGES 615, 616

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

TELEPHONE EXTENSION CABLES/SOCKETS/KITS

Connex



DESCRIPTION	LENGTH (m)	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Coiled Telephone extension lead	3	81-29-44	4.45	4.99	4.89	4.79	✂
Coiled Telephone extension lead	5	81-29-51	5.90	6.50	6.40	6.30	✂
Straight Telephone extension lead	10	81-29-68	10.39	10.99	10.89	10.79	✂
Straight Telephone extension lead	15	81-29-75	14.39	14.99	14.89	14.79	✂
Straight Extension cable reeler	15	81-29-82	17.81	19.99	19.39	18.81	
Straight Extension cable	100	46-08-77	23.45	24.95	24.50	24.00	
UK Telephone 4 core wire	25	46-33-86	4.76	4.99	4.95	4.90	
Single UK Extension sockets and wall box (surface mount)	—	46-34-03	4.55	4.99	4.89	4.79	
Single UK Telephone extension wall socket (flush mounted)	—	46-34-27	4.35	4.65	4.60	4.55	
UK Telephone straight extension cable dual socket	10	46-34-41	4.45	4.99	4.84	4.70	✂
UK Telephone extension cable reel, twin socket outlet	15	46-34-72	10.21	11.89	11.41	10.96	✂
UK Telephone DIY straight extenstion kit, incl. straight extension cable with dual plug single wall socket, 45 cable clips, mini size cable insertion tool	10	46-34-58	8.01	8.99	8.72	8.46	✂
UK Telephone DIY straight extension kit, incl. straight extension cable with dual plug, single wall socket, 45 cable clips, mini size cable insertion tool	15	46-34-65	9.50	9.95	9.85	9.75	

OTHER ITEMS

FOR PC CARD GUIDE AND INDEX SEE PAGE 715
FOR CABLE GUIDE SEE PAGE 565

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

UTP ETHERNET INSTALLATION PRODUCTS

Connex



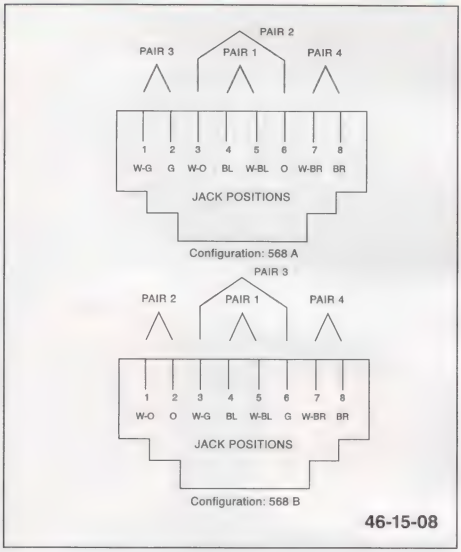
1 Position Wallplate



2 Position Wallplate



46-15-08



46-15-08

UTP Ethernet Wallplates, Jacks, Connectors

These wallplates are sold in two pieces, the first being the faceplate component. The faceplate has keystone shaped cut outs to allow a jack to snap into the faceplate. The second component is the keystone shaped jack. This jack can be Category 3 (10Mbps) or Category 5 (100Mbps) rated and is available in RJ12 (6 wire) or RJ45 (8 wire) versions.

Please note that the Category 5 keystone jacks require a 110-type punchdown tool for installation. The 568A and 568B 110-type colour-coded product is available. Please ensure that these components are the same type as the other previously installed products.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Keystone Jack for 4 Pair RJ-45/Cat 5, Black, RJ-45/110, 568A and 568B	46-15-08	6.45	6.90	6.80	6.70
Modular Plug, RJ-45, 25 Pack	46-15-22	8.35	8.95	8.85	8.75
Modular Plug, RJ-45, 50 Pack	46-15-39	16.35	16.95	16.85	16.75
1 Position Flush Wallplate	46-15-46	4.50	4.95	4.85	4.75
2 Position Flush Wallplate	46-15-53	4.35	4.95	4.75	4.60
Surface Mount Box with Screws	46-15-60	4.50	4.95	4.85	4.75

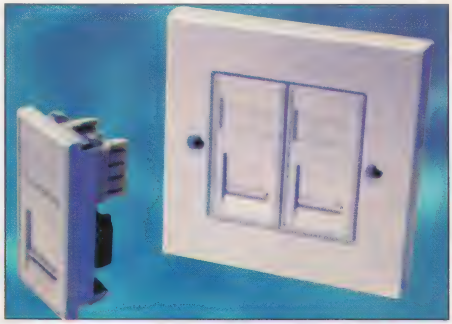
OTHER ITEMS

FOR NETWORK CABLES GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CAT5E PRODUCTS — RW DATA

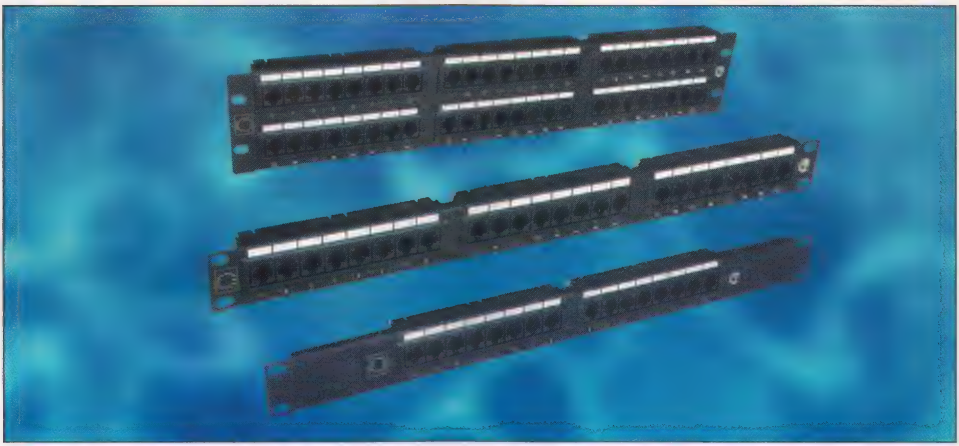
The new E-Type range of network connectivity products offer unbeatable performance and value for money, compared to non-European, imported products.
Designed and manufactured by one of Europe's leading structured cabling product manufacturers, E-Type patch panels and outlets exceed the latest Category 5 Enhanced performance standard, making them the ideal choice for high speed LANs running the latest protocols such as Gigabit Ethernet etc.



FEATURES:

- Designed and manufactured in Europe.
- Category 5E Compliant.
- Low profile design.
- Competitively priced.
- Durable construction.
- Optional cable management.
- Modular, Euro size outlets.
- Accepts universal IDC tools.
- **Manufactured by RW Data.**

NEW LOWER PRICING



DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
RW Data E-Type 16 Port CAT5E Patch Panel	49-19-51	52.00	52.95	52.85	52.75	✂
RW Data E-Type 24 Port CAT5E Patch Panel	49-55-64	62.00	62.95	62.85	62.75	✂
RW Data E-Type 48 Port CAT5E Patch Panel	49-96-20	114.35	◗	114.95	114.75	
RW Data CAT5E Module (**10 pack**)	06-12-60	48.00	49.95	49.85	49.75	
RW Data E-Type single gang face plate (2 way Module) (**10 pack**)	06-08-53	29.20	29.95	29.90	29.85	✂
RW Data E-Type double gang face plate (4 way Module) (**10 pack**)	06-27-85	59.00	59.95	59.85	59.75	✂
RW Data E-Type Module size blank (**10 pack**)	06-36-91	24.03	27.99	26.87	25.80	✂

OTHER ITEMS

FOR NETWORK CABLE GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

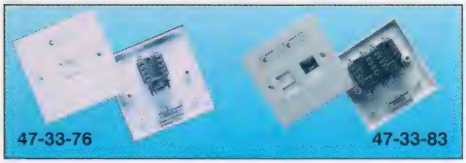
Lower prices on-line at action.com

RJ45 (Category 5) NETWORK CABLE PRODUCTS/PATCH PANELS

KRONE

RJ-K LN Series
The **RJ-K LN Series** from **KRONE** is designed around a high performance unshielded RJ45 jack, featuring **KRONE LSA-PLUS®** Insulation Displacement Contacts.
Compatible with unshielded Cat 5 structured wiring systems at up to 100MHz this series of products provides excellent durability and features a reusable labelling facility for outlet identification and coding.

RJ-K LN RJ-45
Keyed faceplates (white shutter)
UK style single and double faceplates featuring high performance RJ-K LN unshielded modular jacks.





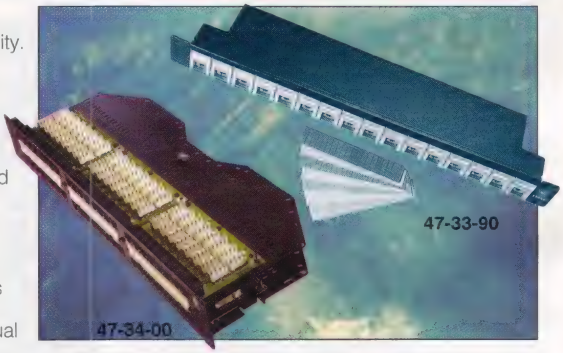
Insertion Tool
- Designed for **KRONE LSA-PLUS®** IDC termination.
- Inserts and crops wires simultaneously.
- Complete with extraction tool and stop clip.
- BT Ref: InserterWire 2A.

Krone PCB patch Panel Series
Exceptional Density
- Up to 24 ports in 1.5U provides very high density.
- Reduces Costs by:
  - — 25% for cabinet requirements
  - — Up to 25% for comms room floor space
  - — Up to 10% for installation time

Complete Solution
- Complete with rear cover, instruction sheet and accessories (including fixing kit)

Ease of Installation
- KRONE LSA-PLUS® technology
- New larger labelling enhances clarity of text.
- Side or rear entry cable management provides support to all ports
- Unique construction allows removal of individual PCB's, pre and post installation.

Powersum Performance
- Powersum compliant — exceeds Cat 5 requirements of ANSI/TIA/EIA 568A.
- Gigabit Ethernet compliant.
- 622Mbps ATM compliant.



KRONE RJ-K LN Patch Panel (47-33-90)
- 19" 1U Patch panel featuring unshielded, high performance modular jacks.
- Integral cable management.
- Integral reusable label holders.
- Supplied complete with fixings.
- Outrigger accessory — leaves both hands free for wiring.
- Colour coded labels.

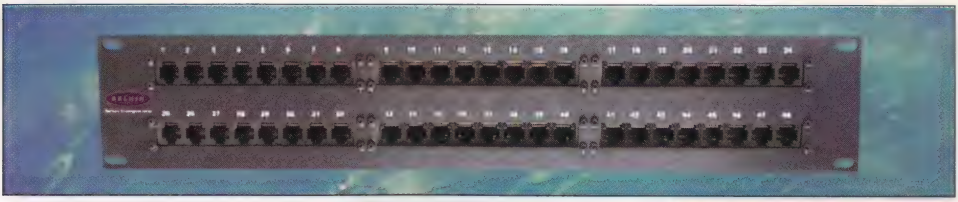
DESCRIPTION	MAN PART NO	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
RJ-K LN Single Faceplate — keyed (white shutter) – **10 Pack**	6538/1/111/13	47-33-76	49.39	49.99	49.89	49.79
RJ-K LN Double Faceplate — keyed (white shutter) – **10 Pack**	6538/1/111/14	47-33-83	87.20	89.00	88.50	88.00
Insertion Tool	6417/1/810/02	47-34-48	22.50	24.00	23.75	23.50
PCB 24 port patch panel	6527/1/607/24	47-34-00	97.60	99.00	98.75	98.50
RJ-K LN 16 port patch panel	6533/1/710/16	47-33-90	87.60	89.00	88.75	88.50

OTHER ITEMS
FOR NETWORK CABLES GUIDE SEE PAGE 599
FOR BULK 300M CAT 5 SEE PAGES 596, 597

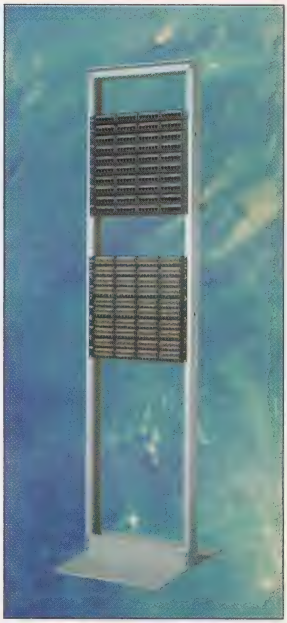
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NETWORK INSTALLATION PRODUCTS

Connex



Category 5 Patch Panel
The **Connex Range of Cat 5** rated Patch Panels, for network installation applications, are constructed from high quality components, and are available in 12, 24 and 48 port rack mount models. They support both 568A and 568B colour-coded wiring installations with user-friendly, easy to use instructions. These panels also support both 110 and Krone punch down tools. 16- and 24-port Shielded Krone Patch Panels that support 568A also available.



The **Connex 19″ Aluminium Racks** are designed to hold your network hubs, patch panels, equipment shelves, as well as any other cabling and rack-mountable equipment. To answer the needs for a complete solution to set up your networks, we also offer half and full size equipment shelves and two sizes of our cable management panels.

Also now available is a strong lightweight half-height distribution rack which make LAN equipment installation in restrictive areas a lot easier. Shelves are also available.

19″ × 84″ Steel Distribution Rack (0.58 × 2.13m)
Cat. No. 46-16-70

CAT 5 PATCH PANELS	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
12-Port Patch Panel, CAT 5, 568A/568B	46-15-91	34.50	34.95	34.85	34.75
24-Port Patch Panel, CAT 5, 568A/568B	46-16-01	69.35	69.95	69.85	69.75
48-Port Patch Panel, CAT 5, 568A/568B	46-16-18	113.25	➧	114.95	114.50
72-Port Patch Panel, CAT 5, 568A/568B	46-16-25	163.99	➧	164.75	164.50
NETWORK RACKS					
Steel Distribution Rack 19″ × 84″	46-16-70	169.39	➧	169.89	169.79
Half-height Weight Aluminium Distribution Rack 19″ wide × 48″ high	49-55-98	149.39	➧	149.89	149.79
CABLE MANAGEMENT PANELS					
2U Cable Management Panel	46-16-63	59.39	59.99	59.89	59.79

OTHER ITEMS

FOR CAT 5 CABLES SEE PAGES 599–614

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

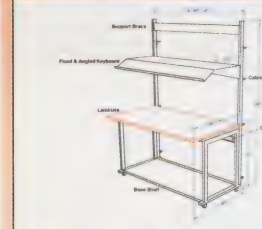
▼ **NEW** *item on this page* ▼

NETWORK RACKING SYSTEM — BDM SYSTEMS

FULMAR RANGE LAN STORAGE



- The Fulmar range offers one of the most cost-effective, specialist LAN racks available.
- BDM Systems has produced a strong, durable and flexible system to meet even the most stringent budget, without compromising quality.
- Available in 0.55mm, 1m and 1.5m wide units, with a host of optional components, including cable management systems, power options, keyboard shelves and storage shelves.
- Call to discuss your particular shelving requirements, if different to those shown below.



Configuration – A
1000mm or **1500mm** wide unit, with:–
- ✓Base frame + uprights
- ✓Laminate worksurface/worktop
- ✓Fixed angle keyboard shelf
- ✓Support brace at top
- ✓Base shelf for tower/UPS
- ✓Cable tray + clips
- ✓On lockable castors for mobility

- FREE site survey and Design Artwork
- FREE delivery and installation (UK Mainland)
- Prompt delivery of units from stock
- FREEPHONE 0800 783 5746 for no-obligation quote or to find out how BDM racking can help solve your space problems
- Modular, height adjustable components – have racking designed to suit your own mix of IT equipment
- Components manufactured in the UK, to ISO9002 approved quality systems
- Independently weight tested and certified
- Lifetime Guarantee
- UK's No.1 Manufacturer & Distributor of LAN racking

FULMAR



Configuration – B
1000mm or **1500mm** wide unit, with:–
- ✓Base frame + uprights
- ✓Laminate worksurface/worktop
- ✓Standard shelf above laminate
- ✓Manual storage shelf at top
- ✓Base shelf for tower/UPS
- ✓Cable tray + clips
- ✓On lockable castors for mobility

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	FUL1000-A Config-A (1000mm wide)	12-11-77	737.62	➧	764.00	756.36
NEW	FUL1500-A Config-A (1500mm wide)	37-00-65	870.86	➧	902.00	892.98
NEW	FUL1000-B Config-B (1000mm wide)	53-78-52	764.65	➧	792.00	784.08
NEW	FUL1500-B Config-B (1500mm wide)	64-78-69	905.61	➧	938.00	928.62

OTHER ITEMS
FOR FOOT RESTS SEE PAGE 505
FOR OFFICE EQUIPMENT SEE PAGES 461–509

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

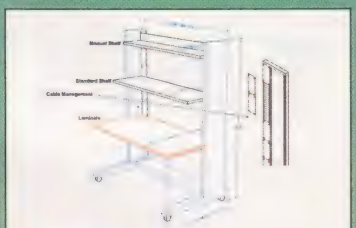
NETWORK RACKING SYSTEM — BDM SYSTEMS

MILLENNIUM RANGE LAN STORAGE

- BDM's highly flexible, flagship product.
- Ergonomically designed on heavy duty lockable castors, this fully integrated modular solution, features our Quick-Release cable management system and integral cable trays to all shelving.
- Available in 0.63m, 1.08m and 1.58m unit sizes, with many additional specialist components, including footrests, mobile server bases, rear doors and power options... please call to discuss your specific shelving requirements.

BDM SYSTEMS THE LAN RACKERS





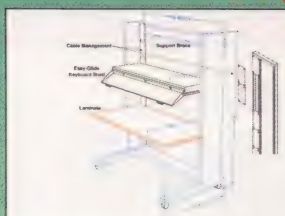
Configuration – A

1086mm or **1586mm** wide unit, with:–

- ✓Leg Sections + leg support brace
- ✓Laminate worksurface/worktop + cable tray
- ✓Standard shelf + cable tray
- ✓Manual storage shelf at top
- ✓Integrated quick release cable management
- ✓On heavy duty lockable castors for mobility

- FREE site survey and Design Artwork
- FREE delivery and installation (UK Mainland)
- Prompt delivery of units from stock
- FREEPHONE 0800 783 5746 for no-obligation quote or to find out how BDM racking can help solve your space problems
- Modular, height adjustable components – have racking designed to suit your own mix of IT equipment
- Components manufactured in the UK, to ISO9002 approved quality systems
- Independently weight tested and certified
- Lifetime Guarantee
- UK's No.1 Manufacturer & Distributor of LAN racking

MILLENNIUM



Configuration – B

1086mm or **1586mm** wide unit, with:–

- ✓Leg Sections + leg support brace
- ✓Laminate worksurface/worktop + cable tray
- ✓'Easy-Glide' keyboard shelf + cable tray
- ✓Support brace at top
- ✓Integrated quick-release cable management
- ✓On heavy duty lockable castors for mobility

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
MIL 1086-A Config-A (1086mm wide)	90-53-04	1112.73	➧	➧	1141.00	NEW
MIL 1586-A Config-A (1586mm wide)	39-61-55	1303.87	➧	➧	1337.00	NEW
MIL 1086-B Config-B (1086mm wide)	77-93-89	1187.34	➧	➧	1217.50	NEW
MIL 1586-B Config-B (1586mm wide)	66-76-41	1357.51	➧	➧	1392.00	NEW

OTHER ITEMS

FOR FOOT RESTS SEE PAGE 505
FOR OFFICE EQUIPMENT SEE PAGES 461–509
FOR CABLE BRIDGES, KITS & TIES SEE PAGES 615, 616

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com



NETWORK CABINETS

FEATURES:

- Rear door conversion as standard.
- Fully Extruded, toughened, tinted, safety glass door.
- Fully assembled.
- Lockable.
- Steel rear and side doors.
- Shock-proof packaging.
- Free delivery.

FREE CASTERS INCLUDED WITH CABINET

DESCRIPTION	PART NO	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
600 WIDE						
18U 600mm deep	7P10-18	49-19-48	357.35		357.95	357.75
27U 600mm deep	7P10-27	49-09-33	406.35		406.95	406.75
27U 800mm deep	7P20-27	49-09-40	439.39		439.89	439.79
39U 600mm deep	7P10-39	49-09-57	471.35		471.95	471.75
39U 800mm deep	7P20-39	49-09-64	487.35		487.95	487.75
42U 600mm deep	7P10-42	49-09-71	487.35		487.95	487.75
42U 800mm deep	7P20-42	49-09-88	499.39		499.89	499.79
45U 600mm deep	7P10-45	49-09-95	499.39		499.89	499.79
45U 800mm deep	7P20-45	49-10-04	520.35		520.95	520.75
800 WIDE						
27U 600mm deep	7P50-27	49-11-14	499.39		499.89	499.79
27U 800mm deep	7P60-27	49-11-21	524.35		524.95	524.75
39U 600mm deep	7P50-39	49-11-38	575.10		575.95	575.75
39U 800mm deep	7P60-39	49-11-45	589.39		589.89	589.79
42U 600mm deep	7P50-42	49-11-52	589.39		589.89	589.79
42U 800mm deep	7P60-42	49-11-69	599.39		599.89	599.79
45U 600mm deep	7P50-45	49-11-76	639.39		639.89	639.79
45U 800mm deep	7P60-45	49-11-83	624.70		625.95	625.50

OTHER ITEMS

FOR OFFICE EQUIPMENT SEE PAGES 459–540

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NETWORK RACKING/CABINETS/ACCESSORIES — PRISM

700 Series Wall Box

- Quick release steel side doors giving all round access with all doors removed.
- Cable management panels fitted to mounting posts.
- Side opening door.

FREE DELIVERY



ROOF MOUNTING FAN UNIT

PT No.	No. FANS
7D10	4

FIXED SHELF – VENTED

PT No.	DEPTH (mm)	MAX LOADING
7D21	450	65kg
7D22	600	60kg

PT No.	'U' HEIGHT	OVERALL HEIGHT (mm)	WIDTH (mm)	DEPTH (mm)
7PW10-06	6U	356.0	600	450
7PW10-09	9U	489.0	600	450
7PW10-12	12U	662.0	600	450
7PW10-15	15U	756.0	600	450
7PW10-18	18U	889.0	600	450
7PW50-09	9U	470.0	700	500
7PW50-12	12U	605.0	700	500
7PW50-15	15U	740.0	700	500
7PW50-18	18U	870.0	700	500

MODEM SHELF

PT No.	HEIGHT	DEPTH (mm)	MAX LOADING
7D26	1U	190	10kg
7D28	2U	400	25kg

TELESCOPIC SHELF – VENTED

PT No.	WIDTH (mm)	DEPTH (mm)	MAX LOADING
7D24	440	450	45kg
7D25	440	600	38kg

DESCRIPTION	PART NO	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
WALL MOUNT						
6U 450mm deep	7PW10-06	49-11-90	154.35	♦	154.95	154.75
9U 450mm deep	7PW10-09	49-12-00	159.00	♦	159.89	159.79
9U 500mm deep	7PW50-09	49-12-17	188.22	♦	194.95	193.00
12U 450mm deep	7PW10-12	49-12-24	171.35	♦	171.95	171.75
12U 500mm deep	7PW50-12	49-12-31	219.35	♦	219.95	219.75
15U 450mm deep	7PW10-15	49-12-48	179.35	♦	179.95	179.75
15U 500mm deep	7PW50-15	49-12-55	219.49	♦	219.99	219.89
18U 450mm deep	7PW10-18	49-12-62	188.35	♦	188.95	188.75
18U 500mm deep	7PW50-18	49-12-79	229.39	♦	229.99	229.79
ACCESSORIES						
4 way Fan Tray roof mount	7D10	49-12-86	95.53	99.95	98.95	97.96
Fixed Shelf – 450mm deep (to fit 600mm deep cabinet)	7D21	49-12-93	19.07	19.95	19.75	19.55
Fixed Shelf – 600mm deep (to fit 800mm deep cabinet)	7D22	49-13-03	20.02	20.95	20.74	20.53
Modem Shelf 1U 190mm deep	7D26	49-13-10	14.29	14.95	14.80	14.65
Modem Shelf 2U 400mm deep	7D28	49-13-34	17.16	17.95	17.77	17.59
3 way rack-mount fan unit	7D41	49-95-03	79.39	79.99	79.89	79.79
Telescopic Shelf – 450mm deep	7D24	49-13-41	76.42	79.95	79.15	78.36
Telescopic Shelf – 600mm deep	7D25	49-13-58	83.11	86.95	86.08	85.22

OTHER ITEMS

FOR OFFICE FURNITURE SEE PAGES 459–540

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

NETWORK RACKING/CABINETS/ACCESSORIES — PRISM



FILE SERVER RACK

- Includes 4 way roof fan, 12 way PDV, extended plinth, telescopic shelves.
- Offers enclosed, secure environment.

PT No.	HEIGHT	WIDTH (mm)	DEPTH (mm)
7M70	42*u*	700	800

PDU – 13 AMP SWITCHED

PT No.	No. OF SOCKETS
7C04-B	6
7C05-B	8
7C06-B	10
7C07-B	12
7C05-HB	8 – Horizontal

SIDE MANAGEMENT for infill panels on 800 wide

PT No.	FINISH
7M80-10	BLACK

DESCRIPTION	PART NO	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
File Server Rack 42*u*	7M70	49-11-07	1497.00	➧	➧	1499.00
PDU 6 way 6 sockets	7C04-B	49-13-65	56.35	58.95	58.36	57.78
PDU 8 way 8 sockets	7C05-B	49-13-72	66.86	69.95	69.25	68.56
PDU 10 way 10 sockets	7C06-B	49-13-89	69.39	69.99	69.89	69.79
PDU 12 way 12 sockets	7C07-B	49-13-96	81.20	84.95	84.10	83.26
PDU 5 way Horizontal New	7C03-B	49-14-06	59.21	61.95	61.33	60.72
PDU 8 way Horizontal New	7C05-HB	49-14-13	71.64	74.95	74.20	73.46
1U Cable Management Bar Black	7M80-09	49-14-20	13.32	14.95	14.50	14.07
Infill Management	7P01	49-14-37	6.19	6.95	6.74	6.54
Castors	7M80-11	49-14-44	22.23	24.95	24.20	23.48
Levelling feet	7D01	49-14-51	11.54	12.95	12.56	12.18
Plinth Kit – 600×600 ×100	7P10-60	49-14-68	59.39	59.99	59.89	59.79
Plinth Kit – 600×800/800×600 ×100	7P20-68	49-14-75	66.86	69.95	69.25	68.56
Plinth Kit – 800×800 ×100	7P40-80	49-15-09	76.42	79.95	79.15	78.36
Cable Tray 150mm-27U per length	7M80-18	49-15-16	10.65	11.95	11.59	11.24
Cable Tray 150mm-39U per length	7M80-19	49-15-23	11.98	13.45	13.05	12.66
Cable Tray 150mm-42U per length	7M80-20	49-15-30	14.21	15.95	15.47	15.01
Cable Tray 150mm-45U per length	7M80-23	49-15-47	17.77	19.95	19.35	18.77
Flat bar jumper ring	7D12	49-18-29	6.67	7.49	7.27	7.05
Bag of 50 cage nuts	7D05	49-31-32	11.54	12.95	12.56	12.18
1U blanking panel	7C24	49-95-04	8.86	9.95	9.65	9.36

OTHER ITEMS

FOR OFFICE FURNITURE SEE PAGES 459–540

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CABLE TESTERS

Mills BELKIN

On this page we feature a range of **Cable Testers.**

PC Cable Check
Cable-Check is the first instrument that tests computer cables for open, shorted and cross connected wires providing a clear indication of continuity and wiring configuration.



- Tests cables fitted with: RJ-11, RJ-45 Plugs, BNC Plugs, SUB' D male and female 9-way, 15-way, 15-way HD, 25-way and Centronics 36-way connectors.
- Simple to handle, one push-button to start test cycle.

The CT45 tests for split pairs, open and short and has the added advantage of measuring cable length. The tester can be calibrated to the cable type under test to ensure accurate cable length measurement.



The CT45 can be used with the remote unit supplied or with a second main unit which enables engineers to receive cable status information at both ends of the cable under test. This enables operators to work more efficiently on site.

Belkin Components Cable Testers are able to read the correct pin configuration of a variety of cables (e.g. 10Base-T, 10Base-2 Ethernet Cable, RJ-45/RJ-11 modular cables, 258A, TIA-568A/568B and Token Ring cable etc.) by comparing one transmitting end to the corresponding receiving end.

FEATURES:
- Easy to read cable status and easy to verify cable continuity, open short, miss-wire and grounding.
- Test cable remotely over long distances with the optional remote Terminator.
- Features either Auto or Manual Scan.



Master Unit Cable Terminator

Cable Tester Quintest
- Innovative 3-in-1 design features modular jacks for testing USOC, 568A/B and RS423 (mm) cabling systems.



- Accurately varies the continuity and sequence of 1-, 2-, 3- and 4 pair voice and data channels.
- Continuously sequencing LED display provides a diagnostic readout that immediately detects shorts, opens, reversals and mis-wires at a glance.
- 9 volt alkaline battery included.

Cable Sniffer: Palm sized remote cable tester with four connecors RJ-45, RJ-11, Minidin and BNC.
- Open/short wiring testing.
- Connected wires display.
- No wire or terminator indication.
- Wrong connection, non-parallel connection.



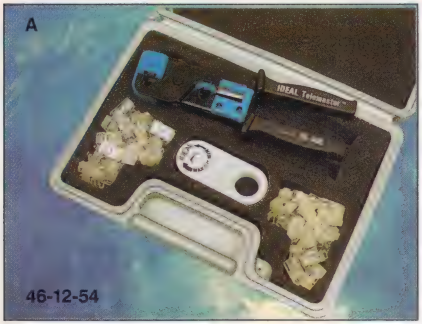
DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Mills PC-Cable-Check	81-02-83	115.49	◗	115.99	115.89
Quintest Cable Tester	87-74-15	73.53	84.95	83.95	82.95
Mills CT45+ UTP/STP Cable Tester	49-49-39	229.39	◗	229.89	229.79
Belkin LANtest (Master unit only)	46-34-89	49.00	49.95	49.75	49.50
Belkin LANtest (Master unit & terminator)	46-34-96	73.00	74.95	74.50	74.00
Remote Cable Sniffer	46-12-30	80.14	89.95	87.25	84.63

OTHER ITEMS
FOR NETWORK CABLE GUIDE SEE PAGE 599

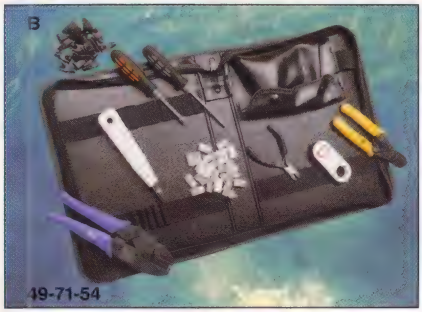
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CABLE TERMINATION/SERVICE/ANTI STATIC KITS

Connex



Economy 10Base-T Kit
Low cost termination kit for Twisted Pair cables.
- Crimper for RJ-11 & RJ-45.
- Twisted Pair stripper.
- 50 RJ-45 modular plugs.



Structured Cabling Installers Kit (Krone or 110 Connectors)
A specialist wallet kit available to suit Krone or 110 Structured Cabling Networks.
- Tool wallet.
- Ratchet crimper.
- Cyclop stripper.
- Cable cutter.
- Side cutter 110mm.
- No. 1 crosspoint screwdriver.
- 4.0 × 100mm slotted screwdriver.
- Pkt. 25 RJ45 plugs.
- Pkt. 25 plug boots.
- **A choice of either a Krone tool or 110 IDC tool.**



The **Static Safe Field Service Kit** provides everything you need to carry out maintenance or installations on static sensitive equipment.

FEATURES:
- Wrist strap.
- Coilly cord.
- Bench mat.
- ESP bonding plug.
- Connector lead Plug to mat.
- Carrying pouch.

Also available: static wrist strap Cat No: 95-35-42.



Anti-Static Bags
High Quality Metalised Shielding Bags – supplied in packets of 10.

	DESCRIPTION	PIC	CAT NO	Web Price	PRICE EACH (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	Economy 10 Base-T Kit	A	46-12-54	88.69	89.95	89.49	89.29
NEW	Structured Cabling Installers Kit – Krone	B	49-71-54	76.42	79.95	79.15	78.36
NEW	Structured Cabling Installers Kit – 110 Connectors	B	49-23-81	81.20	84.95	84.10	83.26
	Static Safe Field Service Kit	C	95-18-67	38.50	38.95	38.85	38.75
✂	Connex Adjustable Static Wrist Strap	—	95-35-42	17.30	17.99	17.89	17.79
	Anti-static Bag 200 × 200mm (30 pk)	D	06-64-53	9.50	9.95	9.85	9.75
	Anti-static Bag 250 × 350mm (30 pk)	D	06-64-60	14.50	14.95	14.85	14.75

OTHER ITEMS
FOR NETWORK CABLES GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

COMPREHENSIVE PROFESSIONAL GRADE TOOL KITS

Mills

DESCRIPTION / KIT	PC A	DP B	SE C	2 SE D
Toolcase			•	•
Feeler Guage Set			•	•
6" Adjustable Wrench			•	•
Phillips Screwdriver No.0+No.1		•	•	•
Phillips Screwdriver No.2			•	•
Phillips Screwdriver No.2-Dumpy.			•	•
Flat Screwdriver – 3 set.		•	•	•
Flat Screwdriver – 6.0mm Dumpy			•	•
Dusting Brush	•	•	•	•
Scissors		•	•	•
Mirror	•	•		•
Mainstester Screwdriver	•	•	•	•
Tweezers	•	•	•	•
Snipe Nose Pliers	•	•	•	•
Side Cutters	•	•		•
Heavy Duty Side Cutters			•	•
Wire Strippers			•	•
Combination Pliers		•	•	•
Crimping Tool		•	•	•
Tape Measure		•	•	•
Metric Hex Key Set		•	•	•
MM Obstruction Wrench Set		•	•	•
Jewellers Screwdriver Set		•	•	•
Oiler			•	•
Retractable Knife	•	•	•	•
6" Ruler	•	•	•	•
Soldering Iron–240V		•	•	•
Solder Sucker and Solder		•	•	•
Torch		•	•	•
Insulation tape			•	•
Hammer			•	•
Junior Hacksaw		•	•	•
Socket Set–37 Piece			•	•
Wallet - Small	•			
Wallet - Large		•		
Nut/Screwdriver set - 13 piece	•			•
4" Adjustable Wrench	•	•		
Wrist Strap				•
Coiled Earth Cord				•
Bench Mat				•
CRP Plug				•
Connector Lead Plug to Mat				•
Carrying Pouch				•
Torx Key Set				•
IC Extractor				•
T15 Torx Driver				•
T20 Torx Driver				•
T25 Torx Driver				•
Trim Tool Set				•
Multimeter				•

Fully guaranteed professional tool kits suitable for complete rebuilds or minor maintenance.



Handy PC Toolkit
74-08-65

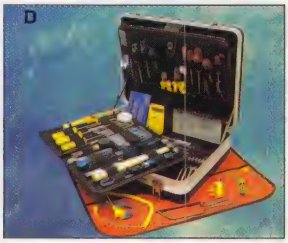
Premier DP Toolkit
74-08-72





No 1 Service Engineers Professional Toolkit
74-08-89

No 2 Service Engineers Professional Toolkit
83-31-98



DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Handy PC Toolkit – **A**	74-08-65	38.40	39.95	39.75	39.50
Premier DP Toolkit – **B**	74-08-72	73.20	74.95	74.50	74.00
No 1 Service Engineers Professional Toolkit – **C**	74-08-89	153.79	♦	168.00	167.00
No 2 Service Engineers Professional Toolkit – **D**	83-31-98	244.85	♦	269.00	266.00

OTHER ITEMS

FOR BULK CABLES SEE PAGES 596, 597

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

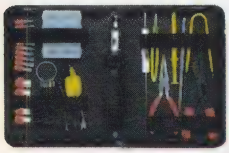
TOOL KITS

BELKIN

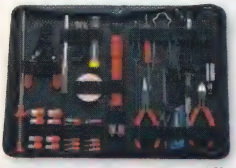
Belkin Quality — one year 1 warranty — Guaranteed!



87-89-33 – 20 pc. Tool Kit



44-97-02 – 36 pc. Tool Kit



87-89-40 – 55 pc. Tool Kit



87-89-57 – 65 pc. Tool Kit

Description	11 piece	20 piece	36 piece	55 piece	65 piece
¼" SAE Socket Driver	•			•	•
3⁄16" Flat Head Driver	•				
2 Philips Driver	•		•		
1 Philips Driver	•				
⅛" Flat Head Driver	•		•		
Torx Driver	•				
5⁄16"SAE Socket Driver	•			•	•
Three Way Ratchet Driver (Forward, Lock and Reverse)		•	•	•	•
Mini Screwdriver Set			•	•	•
Two SAE Sockets (3⁄16, ¼)		•			
Five SAE Sockets (3⁄16, ¼, 5⁄16, [illegible])			•	•	•
Five Metric Sockets (6MM, 7MM, 8MM, 9MM, 10MM)				•	•
Five Torx Bits (T-25, T-20, T15, T-10, T-8 (Powerbook)		•	•	•	•
Four Square Bits (Size 0, Size 1, Size 2, Size 3)				•	•
Two Slotted Screwdriver Bits (4MM, 6MM)		•		•	•
2 Philips Bit Set		•		•	•
6" 1 Philips Bit		•	•	•	•
Pozidriver Bit				•	•
Socket Adaptor		•	•	•	•
Insulated Chip Extractor	•	•	•	•	•
Chip Inserter		•			
3-Pronged Parts Retriever	•	•	•	•	•
Wire Cutter				•	•
Pen Knife				•	•
NeedleNose Plier			•	•	•
Wire Stripper			•	•	•
Coil Resin Core Solder				•	•
Container Solder Remover				•	•
Soldering Iron				•	•
Precision Clamp				•	•
One Flashlight W/2 AA Batteries				•	•
One Slotted Screwdriver with Pocket Clip				•	•
Insulated Tweezers	•	•	•		
Anti-Static Wrist Band			•		•
Spare Parts Box (EXTRA ITEM)	•		•		•
10 Extended Swabs					•
2.75oz Pressurised Duster					•
Mini-Vak Vacuum with 3 Attachments					•
3 Cleaning Wipes					•
Zippered Vinyl Case	•	•	•	•	•

The most comprehensive repair and maintenance kits for your computer and electronic equipment.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
11 Piece Tool Kit	87-89-26	16.99	17.99	17.89	17.79
20 Piece Tool Kit	87-89-33	19.50	19.99	19.89	19.79
36 Piece Tool Kit	44-97-02	32.92	36.95	35.84	34.77
55 Piece Tool Kit	87-89-40	44.25	45.95	45.75	45.55
65 Piece Tool Kit	87-89-57	65.20	65.95	65.75	65.55

OTHER ITEMS

FOR NETWORK CABLES GUIDE SEE PAGE 618

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

TOOL KITS

BELKIN

Description	39 piece	68 piece	78 piece	116 piece
Toolcase			•	•
6" Adjustable Wrench	•	•	•	•
Philips Screwdriver No. 1	•	•	•	
Philips Screwdriver No. 2	•	•	•	•
Flat Screwdriver – 2 piece set	•	•	•	
6 Piece Screwdriver Set			•	
Screwdriver Socket Adaptor Bit		•	•	
6 Piece Precision Screwdriver Set		•	•	
Dusting Brush	•	•	•	•
Inspection Mirror		•		•
Serrated Tweezers			•	•
Tweezers	•	•	•	•
Reverse Action Tweezers	•		•	•
5" Long Nose Pliers	•	•	•	•
4½" Side Cutters	•	•	•	•
Precision Aligning Tools – 2 Set			•	•
Easy Wire Stripper			•	
Precision Wire Stripper				•
8" Crimping Tool				
9½" Crimping Tool	•	•	•	
Metric Hex Key Set	•	•		
Imperial Hex Key Set			•	
9 Piece Hex Key Set				•
10 Piece Combination Wrench				•
Folding Knife				•
Soldering Iron – 240V	•	•	•	•
Solder Pump	•	•		•
Solder Reel	•	•	•	•
Soldering Stand	•	•	•	•
Solder Wick		•		•
Spare Parts Tube	•	•		
Solder Aid Tools – 3 Piece	•	•	•	•
Reversible Ratch Handle	•	•	•	
Junior Hacksaw				
7 Piece Metric Socket Set		•	•	
7 Piece Imperial Socket Set		•	•	
Wallet – Small	•			
Anti-Static Wrist Strap	•	•	•	•
T10 Torx Driver	•	•	•	
T15 Torx Driver	•	•	•	
Digital Multimeter		•	•	•
Three Prong Holder	•	•	•	•
IC Extractor	•	•	•	•
PCLL IC Extractor	•	•	•	•
2 piece IC Inserter (14-16, 24-28 pin ics)	•	•		
Mini Flash Light				•
30 Piece Screw Set (6 Types)				•
10 Piece Washer Set				•
10 Jumpers				•



45-21-84 – 39 pc. Tool Kit



45-21-77 – 68 pc. Tool Kit



45-21-53 – 78 pc. Tool Kit



45-21-60 – 116 pc. Tool Kit

FOR FULL PRODUCT CONTENTS PLEASE CALL 08701 66 44 44

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
39 Piece Tool Kit with Electric Soldering Iron	45-21-84	56.00	57.95	57.50	57.00
68 Piece Tool Kit with Electric Soldering Iron	45-21-77	92.60	94.99	94.49	93.79
78 Piece Tool Kit in Briefcase with Electric Soldering Iron	45-21-53	142.25	♦	144.49	143.99
116 Piece Tool Kit in Briefcase with Electric Soldering Iron	45-21-60	158.29	♦	159.95	159.49

OTHER ITEMS

FOR CABLE MANAGEMENT PRODUCTS SEE PAGES 596, 597

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

TOOLS

Connex



BNC Crimp Tool
CAT No: 91-75-26.



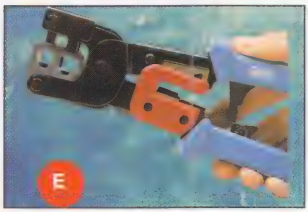
Rotary coax cable Stripping Tool
CAT No: 73-41-70.



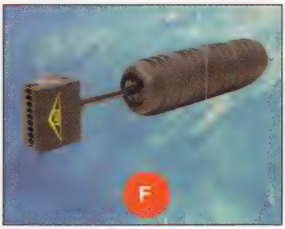
The **Cyclops Data Cable Stripper** for UTP, STP and multicore cables up to 11mm in diameter.
CAT No: 95-35-59.



RJ-45 Crimp Tool
CAT No: 91-67-92



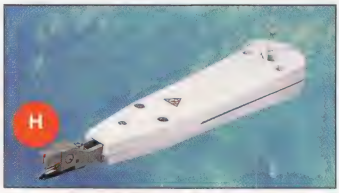
Telemaster Multifunctional Tool which crimps, cuts and strips RJ11 & 45
CAT No: 84-58-32.



5 Pair S110 Termination Tool terminates wire on both the cable side and cross connect side of 110 blocks.
CAT No: 49-96-46



Cable Tracker Kit Pts. High quality par Tracking Kit comprising Tone Tracer and Oscillator for quick and easy Identification Cable pairs. Supplied in a strong canvas pouch.
CAT No: 49-56-03.



Krone Punch Down Tool
CAT No: 47-34-48.

	DESCRIPTION	PIC REF	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	BNC Crimp Tool	A	91-75-26	20.39	21.95	21.85	21.49
	Rotary Stripping Tool	B	73-41-70	11.45	11.90	11.80	11.70
	Data Cable Stripper	C	95-35-59	12.05	12.49	12.39	12.29
	RJ–45 Crimp Tool	D	91-67-92	16.50	16.95	16.85	16.75
	Telemaster RJ11/45 Crimp Tool	E	84-58-32	34.35	34.95	34.85	34.75
NEW	5 Pair 5110 Termination Tool	F	49-96-46	73.59	76.99	76.22	75.46
NEW	Cable Tracker Kit Kit	G	49-56-03	78.50	79.95	79.85	79.75
	Krone Punchdown Tool	H	47-34-48	22.50	24.00	23.75	23.50

OTHER ITEMS

FOR NETWORK CABLES GUIDE SEE PAGE 618

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

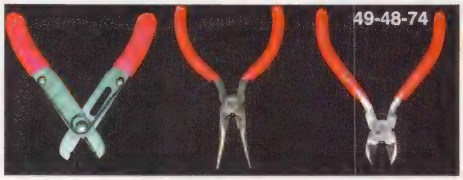
TOOL KITS

BELKIN Connex Mills

Having the proper tool for the job is as important to the do-it-yourself electronic enthusiast as it is to the professional. This selection of multi-purpose computer tools enables you to handle a myriad of tasks with relative ease.

3 Way Ratchet Driver
Torque Driver with 7 attachable





3 Plier Set
Ideal for computer upgrades, wire stripping and bold removal.

10 piece Screwdriver Set
Features individual pieces with chrome vanadium Polynox treated blades.



5 piece Mini Plier/cutter set
Contains 5 hardened tempered pliers.



Mills 6 piece general purpose screwdriver set
Package Contents:
- 4 × slotted (100 × 3mm: 100 × 5.5mm (150 × 6.5mm: 175 × 8mm).
- 2 × POZI (80mm × No.1: 100mm × No.2).
- Carry case supplied.



Mills 41 piece T-handle Screwdriver/ socket set
Package Contents:
- Chrome plated blade with ¼" magnetic bit holder.
- Plastic T-handles for maximum torque.
- Carry case supplied.



DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Belkin 3 way Ratchet Driver	49-48-67	10.69	11.95	11.75	11.49
Belkin 3 piece Plier Set	49-48-74	14.35	14.95	14.85	14.75
Belkin Anti-static Wrist Strap	95-35-42	17.30	17.99	17.89	17.79
Connex 5 piece Mini Plier/cutter set	49-49-22	34.35	34.95	34.85	34.75
Connex 10 piece Screwdriver Set	49-49-15	33.69	34.95	34.75	34.49
Mills 6 piece General Purpose Screwdriver Set	48-96-69	18.09	18.95	18.75	18.49
Mills 41 piece T-handle Screwdriver/socket Set	48-96-83	24.35	24.95	24.85	24.75

OTHER ITEMS
FOR BULK CABLES SEE PAGES 596–613
FOR CAT 5 CABLES SEE PAGES 596–611

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

INDEX BY PRODUCT TYPE

Adaptors – for Modem 748
Adaptors – ISDN PC Card 759
Adaptors – ISDN Terminal ... 759-760, 762, 765-766
Cabinets – for Network Environments .. 644
Cellular Data Card 744
Coupler – for Modem & Fax 747
Dual-speed Hubs 664-665, 674, 676, 678-679, 682
Electronic Mail Box 770-771
Ethernet Adaptor Cards 656
Ethernet Adaptor & Fax Modem 742
Ethernet CardBus 720, 724-725, 732
Ethernet Hubs 663, 666-670, 672-673, 677-678, 680-681
Ethernet Media Convertors 701-702
Ethernet Network Cards 652, 654-655, 657-658
Ethernet PC Cards & Modems 737
Ethernet Switches . 684, 688-689, 691, 694
Ethernet Switch – Gigabit 693, 772
Ethernet Transceivers 703-704
Fast Ethernet Hubs 675
Fast Ethernet Modem Adaptors 724
Fast Ethernet Network Cards 654
Fast Ethernet Switches . 684, 686-687, 690, 692, 695, 696
Fast Gigabit Ethernet Adaptors 654
Fax Modems 757
Fax Modems – External . 752-755, 757-758
Fax Modems – GSM 727, 731, 743
Fax Modems – Internal 752-754, 758
Fax Modems – PC Card . 717-718, 721, 726, 730-731, 736, 738-740, 744, 759
Fax Modems – USB 755
Fax Switches 749
Gigabit Ethernet Adaptors 653
GSM Upgrade Kits 718
Guide – ISDN 750
Guide to Convertors 700
Guide to Ethernet Connectors 650
Guide to Hubs 662
Guide to Multiplexors 700
Guide to Network Adaptors 651
Guide to Networking Accessories 640
Guide to PC Cards 715
Guide to Print Servers 705
Guide to Switches 683, 751
Guide to UPS 640
Hub Accessories 671
Internet Servers 782
ISDN & Analogue Modem Cards 756
ISDN Connection Kit 718
ISDN PC Card Modem 736
ISDN PCI Cards 765
ISDN Terminal Adaptors 759-760, 762, 764-766
ISDN Upgrade Kits 728
Modem Adaptors 747-748
Network Disk Drives 698
Networks Cabinets – Free Standing 644
Network Security 784, 786
PC Card Adaptors 734
PC Card Ethernet Adaptors .. 722, 724-725, 732-733, 741, 745
PC Card Ethernet Adaptors & Fax Modems 719, 723, 725, 734
PC Card Fax Modems 741-742
PC Card Token Ring Adaptors 746
PCI Cards – ISDN 765
Power Adaptor Kits 747
Power Convertor 749
Print Servers 706-714
ProxyServer with ISDN 760
Remote Access Device 783
Remote Access Solutions 761, 764, 768-769, 773-779, 781, 785
Serial Cards – High Speed 767
Serial Interface Cards 761
Storage Servers 699
Storage Station 698
Terminal Servers 776
Thin-Client Software 730
Token Ring Adaptors 659
Token Ring Adaptors – PC Card 746
Token Ring Switches 697
Uninterruptible Power Supply 641-649
Upgrade Kits – GSM 718, 729
Upgrade Kits – ISDN 728
USB Ethernet Adaptor 735
USB Expansion Ports 716
USB ISDN Terminal Adaptors 764
Voice Over IP Gateways 761
Wireless Network 660-661
Wireless Network Interface Cards 660

INDEX BY MANUFACTURER

3Com
Ethernet CardBus. 732
Ethernet Hubs. 666–667, 669
Ethernet Hubs – Switchable. 670
Ethernet Network Cards. 655
Ethernet Switches. 688–689
Fast Ethernet Hubs. 668
Fast Ethernet Network Cards. 654
Fast Ethernet Switches. 687, 690
Gigabit Network Cards. 654
GSM Fax Modems. 731
Hub Accessories. 671
PC Card Adaptors. 733–734
PC Card Ethernet Adaptor & Fax Modems 734
PC Card Ethernet Adaptors. 732
Remote Access Solutions. 768–769
USB Ethernet Adaptor. 735

3Com U.S. Robotics
Fax Modems. 757–758
ISDN Terminal Adaptors. 762
PC Card Modems. 730

Allied Telesyn
Dual-speed Hubs. 678–679
Ethernet Adaptor Cards. 656
Ethernet Hubs. 678
Ethernet Media Convertors. 701
Ethernet Switches. 694
Ethernet Transceivers. 703
Fast Ethernet Media Convertors. 702

APC
Uninterruptible Power Supply . . 641–643, 645
Uninterruptible Power Supply – Rackmounted. 644

Avro Pacific
Coupler – for Modem & Fax. 747
Fax Switches. 749
Modem Adaptors. 747–748
Power Adaptor Kits. 747
Power Convertor. 749

Axis
Print Servers. 712

Bay Networks
Remote Access Solutions. 781

BT
ISDN PCI Cards. 765
ISDN Terminal Adaptors. 765

Chase Research
Serial Cards – High Speed. 767

Cisco Systems
Dual-speed Hubs. 682
Dual-speed Switches. 692
Gigabit Switches. 693
Remote Access Solutions. 777–779

Citrix
Thin-Client Software. 730

D-Link
D-Link Internet Servers. 782
Dual-speed Hubs. 676
Ethernet Hubs. 677
Ethernet Network Cards. 658
Ethernet Print Servers. 714
Ethernet Switches. 696
Ethernet Transceivers. 704
PC Card Ethernet Adaptors. 745

Eicon Technology
ISDN PC Card. 742, 759
ISDN Terminal Adaptors. 759, 766

ELSA
ISDN Terminal Adaptors. 764
Remote Access Solutions. 764
USB ISDN Terminal Adaptors. 764
Wireless Network. 661

Hayes
Fax Modems. 752
GSM Modems. 743
ISDN Terminal Adaptors. 762

Hewlett-Packard
Ethernet Hubs. 680–681
Ethernet Print Servers. 710
Ethernet Switches. 691
Print Servers. 708–709, 711
Token Ring Print Servers. 710

IBM
Token Ring Adaptors – PC Card. . . . 746
Uninterruptible Power Supply. . 648–649

Intel
Dual-speed Ethernet Hubs. . . . 664–665
Dual Speed Switches. 685
e-Commmerce Accelerators. 772
Ethernet CardBus. 724
Ethernet Hubs. 663
Ethernet Network Cards. 652
Ethernet Print Servers. 706–707
Ethernet Switches. 684
Fast Ethernet Hubs. 663
Fast Ethernet Modem Adaptors. 724
Fast Ethernet Switches. 684, 686
Gigabit Ethernet Adaptors. 653
Gigabit Ethernet Switches. 772
PC Card Ethernet Adaptors. 724
Remote Access Solutions. 773
Storage Station. 698
Token Ring Print Servers. 707

Lucent
Wireless Network. 660

Madge
Token Ring Adaptors – PC Card. . . . 746
Token Ring Switches. 697

MultiTech
Ethernet PC Cards & Modems. 737
Fax Modems. 753–755
Fax Modems – USB Desktop. 755
ISDN & Analogue Modem Cards. . . . 756
ISDN PC Card. 736
ISDN Terminal Adaptors. 760
PC Card Modems. 736
ProxyServer with ISDN. 760
Remote Access Solutions. 761
Serial Interface Cards. 761
Voice Over IP Gateways. 761

NETGEAR
Dual-speed Ethernet Switches. 695
Dual-speed Hubs. 674
Ethernet Adaptor & Fax Modem. 742
Ethernet Hubs. 672–673
Fast Ethernet Hubs. 675
Network Disk Drives. 698
Network Ethernet Cards. 657
Print Servers. 713

Nokia
Cellular Data Card. 744

Olicom
Token Ring Adaptors. 659
Token Ring Adaptors – PC Card. . . . 746
Token Ring Switches. 697

Powerware Systems
Uninterruptible Power Supply. . 646–647

Psion Dacom
GSM Modems. 727
GSM Upgrade Kits. 729
ISDN Upgrade Kits. 728
Network Ethernet Cards. 725
PC Card Modems. 726

Quantum
Storage Servers. 699

RampNet
Network Security Firewall. 786
Remote Access Solutions. 785

Shiva
Remote Access Solutions. 774–776
Terminal Servers. 776

SONIC
Network Security Firewall. 784

Symantec
Network Access Drive. 783

TDK
Ethernet Adaptor PC Card. 741
GSM PC Card. 738
GSM PC Card Modem. 739, 740
ISDN PC Card Modem. 739
PC Card Ethernet Adaptors. 741
PC Card Fax Modems. 741

TIXI
Electronic Mail Box. 770–771

Xircom
Ethernet CardBus. 720
Fax Modems – PC Card. 721
GSM/ISDN PC Card Fax Modems. . . 717
GSM Upgrade Kits. 718
ISDN Connection Kit. 718
PC Card Ethernet Adaptors. 722
PC Card Ethernet Adaptors & Fax Modems. 719, 723
USB Expansion Ports. 716

ZOOMAIR
Wireless Network Interface Cards. . . 660

NETWORKING ACCESSORIES GUIDE

To help you keep your network running smoothly Action also sell a host of accessories including:

Uninterruptible Power Supplies 640–649
LAN Furniture 495–499
Switches 550–563, 701–716, 683–704
Network Cables 593–614

UNINTERRUPTIBLE POWER SUPPLY (UPS) GUIDE

INTRODUCTION TO POWER PROTECTION – CAN YOU AFFORD TO BE WITHOUT IT?

- Down-time costs you money.
- Down-time is caused by power problems.
- Power Protection saves you money.

DIFFERENT TYPES OF UPS

A UPS is rated in Volt/Amps VA and the size of the UPS required. There are three types of Uninterruptible Power supplies which offer different levels of support and protection. Optional software is available to provide automatic, unattended shut-down of file servers and workstations.

OFF-LINE OR STAND-BY

A stand-by UPS will filter noise, surges and spikes from the utility power before passing it to the load. The battery, which stands off-line (and therefore does not see the normal utility power) is charged on a required basis. When power failure is detected a switch is activated and the power is supplied from the battery.

LINE-INTERACTIVE

Line-interactive UPSs combine some of the advantages of standby units with those of on-line units. Normal power passes through the noise filters and surge suppressors before going into an inverter, part of which is on-line all the time. The inverter acts as a battery charger under normal conditions but on power failure will provide battery back-up.

ON-LINE

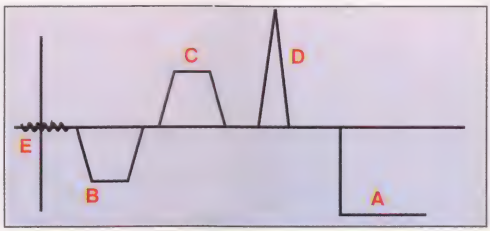
With On-line systems the input current passes through their major components all the time. A steady 230V nominal output is obtained (within the ±15% limits) and if the line fails or goes outside of the input limits, the battery will instantly carry on delivering power to the load.

Type of Power problems

A: Black-Out
A total loss of utility supply due to excessive demands on the power grid, storms, lightning strike or nearby construction work and human error results in a catastrophic **loss of all current work**, possible **loss of file allocation table** resulting in loss of all data on the hard drive, and **file corruption**.

B: Sags
A short term decrease in voltage which results in the **computer being starved of power**. This can be caused by the start-up power demands of lifts, electric motors and other nearby industrial equipment causing **keyboards to lock up, PC's to reboot, operating system crashes**, and **data corruption.**

C: Surge
A short-term increase in voltage as extra voltage from lifts, electric motors, etc. is dissipated through the mains. This can cause components to be put under stress decreasing both the reliability and working life of your equipment. **Permanent damage to components** can occur leading to lost productivity whilst repair or replacement occurs.



D: Spike
An instantaneous dramatic rise in voltage often caused by damage to power lines or lightning strikes nearby causing catastrophic damage to hardware such as **damaged motherboards fractured hard-drives** and **damaged network interface cards**.

E: Noise
Electro-magnetic interference or radio frequency interference disrupts smooth mains supply causing random errors to be introduced into data files and executable programs. Noise can be generated by **lighting**, industrial equipment, **lifts**, and **other cables nearby**.

OTHER ITEMS FOR NETWORK PRODUCT INDEX SEE PAGE 638, 639

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
>> Save £££'s!
>> Check live stock
>> Track order status

UNINTERRUPTIBLE POWER SUPPLIES

APC

APC is the world market leader in UPS systems. The **Back-UPS** range from **APC** offers low cost reliable power protection for PCs and LAN file servers.

FEATURES:

- Full time noise, surge, spike, sag and black-out protection
- Built-in surge protection for laser printers etc.
- Brown-out protection at 197 vac
- 100% Surge protection to ANSI/IEE category A & B.
- Hot swappable user replacable batteries



MasterSwitch

FEATURES:

- Controls 8 independent power channels.
- Plug in any 230AC device.
- Works over LANs or Enterprise Networks.
- Embedded Web-based manageability via HTTP, or SNMP.

PowerStack

FEATURES:

- Available as 250 or 450VA.
- Compact (1U) and rackmountable.
- Hot swappable batteries.
- Intelligent battery management (Double SmartBoost and SmartTrim).

Model	Back-Ups			MasterSwitch		
	MI 300VA	MI 500VA	MI 650VA	230VA	250VA	450VA
UPS Type	Off-Line			Line Interactive		
VA rating	300VA	500VA	650VA	230VA	250VA	450VA
Battery life	3-6 years					
Dimensions (W×D×H)	90×330×150mm			490×165×48mm	444×330×44mm	
Weight	6.5kg	8.2kg	11.3kg	3kg	8.4kg	10.2kg
Warranty	2 years off-site					

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Back-UPS MI 300VA	44-46-66	53.81	55.88	55.32	54.77
Back-UPS MI 500VA	44-46-73	66.67	69.23	68.54	67.85
Back-UPS MI 650VA (LAN Compatible)	44-46-80	107.62	◗	110.63	109.52
MasterSwitch 230VA	49-05-79	305.06	◗	313.60	310.46
PowerStack 250VA	49-06-89	131.05	◗	134.72	133.37
PowerStack 450VA	49-06-96	177.58	◗	182.55	180.72

APC PowerChute Plus software allows for advanced monitoring and shutdown features when using an APC Smart-UPS. **Note:** With APC Back-UPS, diagnostic features are not available.

FEATURES:

- Novell Certified NLM
- Automatic unattended shutdown upon mains failure
- Scheduled shutdown and reboot
- GUI display of mains power supply
- Data Log date and time stamps power disruptions
- Includes interface cables and manual

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
PowerChute Plus (DM) for Novell NetWare	92-47-84	38.60	40.08	39.68	39.28
PowerChute Plus (DM) for Windows NT	93-78-36	38.60	40.08	39.68	39.28
PowerChute Plus for Windows	96-00-47	26.91	27.94	27.66	27.38
UPS Serial Cable	44-30-87	15.99	16.60	16.43	16.27

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LINE INTERACTIVE UPS

APC

Designed for Microsoft® Windows® 95

PLUG PLAY



Networking pre-sales team 08701 663322

APC introduces the all-new **APC Back-UPS Pro** models designed especially for NT and Windows 95 PCs and peripherals.
The APC Back-UPS Pro 280, the Back-UPS Pro 420 and the APC Back-UPS Pro 650 are guaranteed to have the longest runtime of any unit in their class. Additionally, the new units incorporate several important improvements.

FEATURES:
- Intelligent battery management.
- Full automatic voltage regulation.
- Hot swappable, user replaceable batteries.
- Full time surge suppression and noise isolation.
- Network cable surge protection.
- Communication interface port on all models.

NEW FEATURES:
- Critical safety features.
- Smartest UPS designed for the desktop PC.
- Complete System Protection.
- Money saving double boost AVR.

The new APC Back-UPS Pro 280, 420 and 650 now ship with APC's PowerChute plus power management and diagnostic software support for Microsoft Windows NT, Novell NetWare, Windows 3.x and Windows 95 along with SNMP Agents for NetWare and Windows NT.

Model	Back-UPS Pro 280	Back-UPS Pro 420	Back-UPS Pro 650	Back-UPS Pro 1000	Back-UPS Pro 1400
UPS type	Line-Interactive				
VA rating	280VA	420VA	650VA	1000VA	1400VA
Suggested application	Small 286/386 desktop PC	Desktop 386/486 workstations	CAD workstations	486 and Pentium workstations	
Battery life	3-6 years				
Output sockets	4 × IEC 320 standard 'kettle' sockets				
Dimensions (W × D × H)	168 × 119 × 361mm			216 × 170 × 437mm	
Net weight	7.2kg	8.5kg	10.7kg	21.8kg	26.3kg
Shipping weight	9kg	10.3kg	12.3kg	22.7kg	27.4kg
Warranty	2 years manufacturers swap-out				

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Back-UPS Pro 280VA – with PowerChute Plus software	46-12-09	84.23	87.46	86.59	85.72
Back-UPS Pro 420VA – with PowerChute Plus software	46-12-16	111.08	◗	114.19	113.05
Back-UPS Pro 650VA – with PowerChute Plus software	46-12-23	150.07	◗	154.27	152.73
Back-UPS Pro 1000VA (**no software included**)	95-52-65	224.51	◗	230.80	228.49
Back-UPS Pro 1400VA (**no software included**)	95-52-72	293.06	◗	301.26	298.25
APC UPS Serial Cable	44-30-87	15.99	16.60	16.43	16.27

OTHER ITEMS FOR NETWORK PRODUCT INDEX SEE PAGES 638, 639

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LINE INTERACTIVE UPS

APC

The **Smart-UPS 420/620** offer affordable power protection for entry level departmental LAN, small office, and home office servers. The new Smart-UPS 420/620 provide a complete, cost-effective solution to power problems. Included are features such as PowerChute plus software (for Windows NT, Novell NetWare, Windows 95 and SCO Unix) included for graceful unattended shutdown of the server, Double SmartBoost, SmartTrim, network surge suppression, full time surge suppression, and hot swappable user replaceable batteries.

FEATURES:
- Line-interactive design.
- Intelligent battery management.
- Network Interface Port.
- User replacable batteries.
- Automatic battery self-test.

Enhanced Smart-UPS

The APC range of enhanced Smart-UPS provide performance power management for advanced business networks. All the features of the Smart-UPS as well as:
- Intelligent battery management.
- Full voltage regulation with boost and trim facility.
- Internal Smart-Slot for accessories.
- User replaceable batteries.
- UPS power management, Diagnostics and shut-down via PowerChute Plus (optional).
- Full 2 Year warranty.



UPS Interface Expander Cat no. 95-53-37
- Provides two additional ports to facilitate shut-down of up to three servers from a single UPS.

Model	Smart-UPS V/S 420	Smart-UPS V/S 620	Smart-UPS 700	Smart-UPS 1000*	Smart-UPS 1400*	Smart-UPS 2200*	Smart-UPS 3000*	Smart-UPS 5000*
UPS type	Line-Interactive							
VA rating	420VA	620VA	700VA	1000VA	1400VA	2200VA	3000VA	5000VA
Suggested application	386 and 486 desktop servers	486 and Pentium servers	386 and 486 servers	486 and Pentium servers		Multiple server applications		
Battery life	3-6 years							
Output sockets	4 × IEC 320 standard 'kettle' sockets					8 × IEC 320		
Dimensions (W × D × H)	168 × 119 × 368mm		158 × 137 × 358mm	216 × 170 × 439mm		432 × 196 × 546mm		508 × 229 × 635mm
Net Weight	7.3kg	10.5kg	13.2kg	19.7kg	23.6kg	54.4kg	64kg	99kg
Shipping weight	9.12kg	12.34kg	14.5kg	22.0kg	25.9kg	63.5kg	70kg	110kg
Warranty	2 years manufacturers swap-out							

***For Rackmount versions see page 644.**

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Smart-UPS 700VA **INET**, PowerChute + & SNMP Agent*	84-26-15	186.69	➧	191.92	190.00
Smart-UPS 1000VA **INET**, PowerChute + & SNMP Agent*	84-26-22	259.97	➧	267.25	264.58
Smart-UPS 1400VA **INET**, PowerChute + & SNMP Agent*	84-26-39	328.50	➧	337.70	334.32
Smart-UPS 2200VA **INET**, PowerChute + & SNMP Agent*	84-26-46	497.85	➧	511.79	506.67
Smart-UPS 3000VA **INET**, PowerChute + & SNMP Agent*	97-61-27	782.27	➧	804.17	796.13
Smart-UPS 5000VA **INET**, PowerChute + & SNMP Agent*	49-31-88	1532.61	➧	➧	1559.76
Smart-UPS 420VA with PowerChute Plus Software	46-12-61	114.62	➧	117.83	116.65
Smart-UPS 620VA with PowerChute Plus Software	46-12-78	160.71	➧	165.21	163.56
ACCESSORIES					
UPS Interface Expander	95-53-37	57.32	59.52	58.92	58.34
APC UPS Serial Cable	44-30-87	15.99	16.60	16.43	16.27

***INET – includes PowerChute + for WIN NT, Novell, WIN 95, PowerNet SNMP agent for Novell and NT (CD) + SCO UNIX.**

OTHER ITEMS
FOR FULL RANGE OF HUBS SEE PAGES 662–682

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

RACKMOUNT UPS



APC make a range of **Smart-UPS** designed specially to be **rackmountable** that provide performance, power management for advanced business networks.

FEATURES:
- Intelligent battery management.
- Full voltage regulation with boost and trim facility.
- Internal Smart-Slot for accessories.
- User replaceable batteries.
- UPS power management, Diagnostics and shut-down via PowerChute Plus (optional).
- Full 2 year warranty.

Networking pre-sales team
08701 663322

DIAGNOSTICS:
Battery Replacement Warning prevents downtime
PAC Smart-UPS RMs automatically perform a self-test every two weeks. This ensures that you will be alerted to the degraded batteries before they wear out. Through optional software or a simple push of a button, you may perform self-tests as often as desired.

Informative LED Display provides status at a glance
Instantly assess the status of your power and the APC Smart-UPS RM without even pushing a button. Bar meters and status indicators are simple to use and easy to understand. Visual and audible alarms alert you to fault conditions.

Load and Volt Meters keep you in control
Load Meter prevents you from exceeding UPS capacity. Volt Meter reports utility line voltage and battery capacity allowing you to gauge how much time you have before batteries are depleted. Alarm sounds upon low battery condition allowing you time to save data and shutdown system.

Specifications	SU700RMI2U	SU1000RMI2U	SUI400RMI2U	SU2200RMI3U	SU3000RMI3U	SU5000RMI3U	SU5000RMI
Input Line	IEC320 C14 (10AMP)			IEC320 C20 (16AMP)		Hardwire	
Output Receptacles (IEC320 C13-10AMP)	4	4	4	8 IEC320 C13 (10AMP) + 1 IEC320 C19 (16AMP)		8 IEC320 – 10 2 IEC320 – 16	
Maximum Dimensions (W×D×H)	483×133×356mm			483×132×635mm		483×635×222	508×635×229
Weight	18.1kg	20.8kg	26.4kg	54.5kg	58.6kg	100kg	
Warranty	2 years manufacturers swap-out						

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	Rackmounted Smart-UPS 700VA INET*	84-17-59	271.67	◗	279.28	276.49
NEW	Rackmounted Smart-UPS 1000VA INET*	84-53-46	374.22	◗	384.70	380.85
NEW	Rackmounted Smart-UPS 1400VA INET*	84-94-76	393.98	◗	405.01	400.96
	Rackmounted Smart-UPS 2200VA INET*	84-67-83	779.92	◗	801.75	793.73
	Rackmounted Smart-UPS 3000VA INET*	88-35-64	964.26	◗	991.25	981.34
	Rackmounted Smart-UPS 5000VA INET*	49-31-85	1725.97	◗	◗	1756.55
	APC UPS Serial Cable	44-30-87	15.99	16.60	16.43	16.27

*INET includes PowerShute Plus for Win 95, NT, Novell, PowerNet SNMP agent for Novell and NT (CD).

OTHER ITEMS
FOR A FULL RANGE OF UPS PRODUCTS SEE PAGE 640–649

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LINE INTERACTIVE UPS

APC

In many existing mid-sized UPSs, a small internal failure can bring down the whole UPS, which then brings down all of the loads. **APC Matrix UPSs** solve this problem with a completely modular design. A basic Matrix UPS unit is made up of an isolation module, an electronics module and external SmartCell battery packs.
Any component failures are isolated to their blocks which can be quickly diagnosed and cost effectively swapped out, even while the protected system is still up and running.



FEATURES:

- Fully compatible with NetWare, UNIX, LAN manager, OS/2 Windows NT, AS/400 and more.
- LED display provides UPS status and diagnostic information.
- Battery microprocessor provides on-board diagnostics.
- Add additional SmartCells for extended runtime.
- Hot swappable modularity means 100% uptime.
- 93% efficient at full load.
- Separate enclosures mean longer battery life.

Networking pre-sales team
08701 663322

Model	Matrix 3000VA	Matrix 5000VA	Matrix 3000XRW	Matrix 5000XRW
UPS type	Line interactive UPS			
VA rating	3000	5000	3000	5000
Suggested application	Multiple file servers, mid-range systems including AS400, VAX, and HP, wiring closets and other applications with total loads above 2kVA		Telecom equipment and datacentres requiring additional runtime	
Battery life	3 to 6 years			
Dimensions (W × D × H)	693 × 351 × 452mm			
Shipping weight	94.3kg	127.4kg	202.2kg	206.3kg
Warranty	2 years manufacturers swap-out			

DESCRIPTION	RUNTIME	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Matrix 3000VA	Normal	84-37-48	1426.38	➧	➧	1451.65
Matrix 5000VA	Normal	84-37-62	2107.52	➧	➧	2123.41
Matrix 3000XRW	With extended runtime	84-37-55	1740.31	➧	➧	1771.14
Matrix 5000XRW	With extended runtime	84-37-79	2191.93	➧	➧	2208.45
SmartCell Battery Pack	Add to extend runtime	84-37-86	290.69	➧	298.83	295.84
SmartCell XRW Battery Pack	With extended runtime	88-44-22	679.46	➧	698.48	691.50
APC UPS Serial Cable	—	44-30-87	15.99	16.60	16.43	16.27

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

ON-LINE UPS

POWERWARE

Since its launch the **Powerware Prestige** range of On-line UPS has taken the market by storm. Leading IT magazines have found the Prestige On-line UPS to be superior when tested against all major UPS brands. Unlike Off-line and Line-interactive UPSs, the **Power Prestige On-line UPS** provides regulated 240V AC power protection for LAN file servers and critical applications.



FEATURES:

- No-break On-line UPS
- 240V AC regulated sinewave output
- Superior line conditioning against lightning, spikes and sags
- RS232 interface for LANSAFE software
- Prestige EXT models feature extended battery capability
- Automatic Bypass
- Self test for replace battery warning

WHAT PC? BUY BEST BUY BEST BUY BEST

Network COMPUTING MAGAZINE'S CHOICE

LAN MAGAZINE RECOMMENDED

Computer Reseller News Editors' Choice

yes It runs with NetWare

Model	Powerware Prestige 600	Powerware Prestige 800	Powerware Prestige 1000	Powerware Prestige 1500 EXT	Powerware Prestige 1800 EXT	Powerware Prestige 2500 EXT	Powerware Prestige 3000 EXT	Powerware Prestige 4500 EXT	Powerware Prestige 6000 EXT
UPS type	On-Line								
VA rating	600VA	800VA	1000VA	1500VA	1800VA	2500VA	3000VA	4500VA	6000VA
Suggested application	Desktop LAN servers		Tower LAN servers	Multiple LAN servers UNIX servers			Mid-range systems	Centralised multi-server sites, mini-computers	
Back-up time (half load)	30 minutes	25 minutes	18 minutes	16 minutes	12 minutes	20 minutes		7 minutes	
Battery life	Up to 6 years								
Output sockets	3×IEC320 standard 'kettle' sockets					4×BS1363/A		Hard-wired	
Warranty	2 years manufacturers swap-out								

All Powerware UPS include award winning LanSafe/FailSafe shutdown software, LanSafe will allow the unattended shutdown of up to 64 networked computer systems from a single UPS. Other features include e-mail, paging and broadcast messages on over 70 different power events. Support is included for over 20 operating systems on a single CD-ROM – Novell,Windows 95 & NT, Windows, most UNIX operating systems including IBM AIX, DEC, UNIX, HP UX, Linux, Apple & OS/2.

Networking pre-sales team 08701 663322

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Powerware Prestige 600VA	70-76-33	327.09	➧	336.25	332.89
Powerware Prestige 800VA	70-76-40	362.85	➧	373.01	369.28
Powerware Prestige 1000VA	70-76-57	416.46	➧	428.12	423.84
Powerware Prestige EXT 1500VA	70-76-71	535.64	➧	550.63	545.12
Powerware Prestige EXT 1800VA	97-34-98	714.37	➧	734.37	727.03
Powerware Prestige EXT 2500VA	70-76-88	922.91	➧	948.75	939.26
Powerware Prestige EXT 3000VA	70-76-95	1058.62	➧	➧	1077.37
Powerware Prestige EXT 4500VA	44-54-21	1684.52	➧	➧	1714.36
Powerware Prestige EXT 6000VA	47-20-30	1925.25	➧	➧	1959.36

OTHER ITEMS

FOR NETWORK PRODUCT INDEX SEE PAGE 638, 639

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ON-LINE UPS

POWERWARE

Powerware is proud to announce the Powerware 9110 – taking Power Protection to a new level. Designed to completely protect your mission critical load from the 9 most common power problems in the workplace environment: **Power Failure, Sags, Surges, Brownout, Line Noise, High Voltage Spike, Switching Transients, Frequency Variation and Harmonic Distortion**.

FEATURES:

- Double Conversion Online UPS
- Series 9 UPS – protecting against all 9 power problems
- RS232 interface port and cable – for LanSafe software
- Opitional Battery modules for increased runtime
- Up to 6 years battery life
- Industry First – **5 year** pro-rated warranty



Free LanSafe shutdown software on all Powerware UPSs. supports over 20 operating systems, shutdown of up to 64 networked servers/workstations regardless of operating system platform, includes power features such as e-mail, paging, broadcast messages and SNMP support.

VA rating	700VA	1000VA	1500VA	2000VA	3000VA	5000VA	6000VA
Application	Desktop Server	TowerServer+ peripherals		Multiple servers/workstations		Hardwired server room protection	
Topology	True Online – Double Conversion Technology						
Output Sockets	4 × IEC 320				2 × IEC 16A+ 4way strip	Hardwiring required	
Backup time full load	7 mins	8 mins	7 mins	10 mins	6 mins	10 mins	7 mins
with 1 battery pack	n/a	35 mins	27 mins	35 mins	22 mins	45 mins	35 mins
with 2 battery packs	n/a	65 mins	56 mins	65 mins	50 mins	85 mins	65 mins
Half load support	for half load runtime, multiply the above run times by 3 (approx)						
Software Support	Windows 95/98/NT, Novell, OS/2, Unix incl. IBM AIX, Digital Unix, HP UX, SCO, Linux and Apple Mac						
Warranty	5 year pro-rated warranty						

Networking pre-sales team 08701 663322

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Powerware 9110 – 700VA	49-54-12	303.86	◗	312.37	309.25
Powerware 9110 – 1000VA	49-31-61	398.59	◗	409.75	405.65
Powerware 9110 – 1500VA	49-95-13	506.44	◗	520.62	515.41
Powerware 9110 – 2000VA	49-18-72	655.39	◗	673.74	667.00
Powerware 9110 – 3000VA	44-17-18	993.02	◗	◗	1010.61
Powerware 9110 – 5000VA	49-70-53	1654.43	◗	◗	1683.74
Powerware 9110 – 6000VA	49-22-91	1865.67	◗	◗	1898.72
9110 Battery Pack for 1000VA	45-30-86	148.94	◗	153.11	151.58
9110 Battery Pack for 1500VA	47-53-44	166.82	◗	171.49	169.78
9110 Battery Pack for 2000/3000VA	48-94-75	283.00	◗	290.92	288.01
9110 Battery Pack for 5000/6000VA	47-17-19	744.76	◗	765.61	757.95

www.action.com THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LINE INTERACTIVE UPS

IBM's Office Professional 300/500/700 UPS System provides complete power protection for your entire computer set-up, even power hungry peripherals. Battery backup maintains your Internet connection allowing you to work online through short blackouts or safely shutdown during longer ones. Unique design features 6 outlets (3 UPS & surge + 3 surge-only outlets), diagnostic LEDs and a built-in serial port.

- 300, 500 or 700 VA output power rating.
- 6 protected outlets (3 UPS & surge + 3 surge-only outlets); 6 ft. cord.
- Built-in RJ-11 jacks prevent surges from damaging your modem/fax equipment on 2 lines simultaneously; 6 ft. telephone cord included.
- DB9 serial port for network interface; SNMP compatible.
- Complete surge protection and EMI/RFI noise filtering.
- $50,000 Ultimate Lifetime Insurance – no warranty cards required for coverage.
- PowerAlert unattended shutdown software and 6 ft. network cable included.
- 3 diagnostic LEDs indicate AC present, on battery & battery low/replace.

IBM's Office Professional 300/500/700 AVR UPS System provides intelligent, line-interactive battery backup for personal computers, workstations and small network systems. Battery backup maintains your Internet or network connection allowing you to work online through short blackouts or safely shut down during longer ones. Unique design features 6 AVR protected outlets (3 UPS & surge + 3 surge-only outlets), diagnostic LEDs and a built-in serial port.

- 300/500/700 VA output power rating (300 watts).
- 6 AVR protected outlets (3 UPS & surge + 3 surge-only outlets); 6 ft. cord.
- Built-in RJ-11 jacks prevent surges from damaging your modem/fax equipment; 6 ft. telephone cord included.
- DB9 serial port for network interface; SNMP compatible.
- Line-interactive with 4 levels of automatic voltage regulation (AVR).
- Complete surge protection and EMI/RFI noise filtering.
- $100,000 Ultimate Lifetime Insurance.
- PowerAlert unattended shutdown software and 6 ft. network cable included.
- 4 diagnostic LEDs indicate AC present, on battery, voltage correction & battery.

Model	300I	500I	700I	300 AVRi	500 AVRi	700 AVRi
UPS type	Off-line			Line Interactive		
VA rating	300VA	500VA	700VA	300VA	500VA	700VA
Suggested application	PCs, PoS	PCs, Hubs	PCs, routers	CAD PCs	CAD, small telephone systems	CAD, mid-size tel. systems
Back-up time*	10 mins	17 mins		10 mins	17 mins	
Output sockets	6 (3 UPS, 3 surge)					
Dimensions (W×D×H)	416×233×331mm	434×323×257mm	270×367×422mm	416×233×331mm	311×250×429mm	270×416×348mm
Weight	10.5kg	14.5kg	19.3kg	10.5kg	15kg	20.8kg
Warranty	Lifetime insurance					

	DESCRIPTION	IBM PART NO	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	FOR USE WITH IBM APTIVA AND PC FAMILY COMPUTERS						
NEW	IBM Office Professional 300i (VA)	10K1918	48-22-65	41.39	43.30	42.87	42.44
NEW	IBM Office Professional 500i (VA)	10K1919	49-50-46	56.54	59.15	58.56	57.97
NEW	IBM Office Professional 700i (VA)	10K1920	48-12-66	98.91	◆	102.45	101.43
	FOR USE WITH IBM E PRO, M PRO, Z PRO INTELLISTATIONS 9 NETVISTAS						
NEW	IBM Office Professional 300 AVRi (VA)	10K1921	48-08-38	75.77	79.27	78.48	77.69
NEW	IBM Office Professional 500 AVRi (VA)	10K1922	49-39-62	93.95	97.56	96.58	95.62
NEW	IBM Office Professional 700 AVRi (VA)	10K1923	48-27-72	134.05	◆	137.80	136.42

OTHER ITEMS
FOR NETWORK PRODUCT INDEX SEE PAGES 638, 639

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LINE INTERACTIVE UPS

IBM's Network Professional 450 RT UPS System provides intelligent, line-interactive battery back up for network systems and hubs/routers/switches. Innovative design makes the unit adaptable for rackmount, wall-mount, under-monitor, and tower applications. 450 VA of battery back up allows you to work through short blackouts or safely shut down during longer ones.

FEATURES:
- 450 VA output power rating (270 watts).
- Innovative design makes unit adaptable for rackmount, wall-mount, under-monitor, and tower applications.
- Rackmount fits standard 19 in. rack (1 rack space).
- Accessory slot for use with optional SNMP card.
- 5 AVR proteted outlets (4 UPS & surge + 1 surge-only outlets); 6 ft cord.
- DB9 serial port for network interface; SNMP compatible.
- EXCLUSIVE: PowerAlert Software compatible with every brand of UPS, from every manufacturer.
- Line-interactive with 4 levels of automatic voltage regulation (AVR).
- $100,000 Ultimate Lifetime Insurance.
- Diagnostic LEDs.

IBM's Network Professional 700i/700 RM UPS System provides intelligent, line-interactive battery back up for rackmount network equipment. 700 VA of battery back up allows you to work through short blackouts or safely shut down during longer ones. The unit has 8 outlets (700i:6), diagnostic LEDs and built-in serial port that works with PowerAlert Software to provide automatic unattended shutdown.

FEATURES:
- 700 VA output power rating (450 watts).
- Up to 45 minutes typical back up time.
- 8 protected outlets (700i:6); 12ft. cord.
- Rackmount fits standard 19in. rack.
- DB9 serial port for network interface.
- PowerAlert unattended shutdown software.
- EXCLUSIVE: PowerAlert Software compatible with every brand of UPS, from every manufacturer.
- Line-interactive with 4 levels of automatic voltage regulation (AVR).
- $100,000 Ultimate Lifetime Insurance.
- Diagnostic LEDs.

Model	450Ti	700i	700RMi
UPS type	Line Interactive		
VA rating	450VA	700VA	
Suggested application	Rackmount Hubs, Routers, small networks		
Back-up time	25 mins	45 mins	
Output sockets	5 (4 UPS, 1 surge)		
Dimensions (W×D×H)	TBA	115×171×202mm	115×171×257mm
Weight	TBA	7kg	9.3kg
Warranty	Lifetime insurance		

DESCRIPTION	IBM PART NO.	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
FOR USE WITH IBM NETFINITY SERVERS AND NETWORK STATIONS							
IBM Network Professional 450RTi (VA) – Rackmountable	10K1924	49-37-29	157.78	♦	163.42	161.79	NEW
IBM Network Professional 700i (VA)	10K1922	48-98-33	107.35	♦	110.36	109.26	NEW
IBM Network Professional 700RMi (VA) – Rackmountable	10K1926	49-56-19	237.26	♦	243.90	241.46	NEW

OTHER ITEMS

FOR NETWORK PRODUCT INDEX SEE PAGES 638, 639

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

ETHERNET CARD CONNECTOR GUIDE

Most Common Ethernet Cables/Connectors			
Cable Type	**Definition**	**Alternative**	**Connector**
Thick Coax	10Base-5	Thick Ethernet	AUI
Thin Coax	10Base-2	Thin Ethernet	BNC
Twisted Pair	10Base-T/100Base-TX	UTP	RJ-45
Fibre Optic	Fibre	FDDI	SC/ST

The following guide is designed to make your choice of Ethernet adaptor as trouble free as possible. Each of the most common Ethernet adaptors is illustrated below and given a title from connector A to E. Throughout our extensive range of Ethernet adaptors each card will be clearly labelled to show which ports it has. For instance an Ethernet card with a RJ-45 and an AUI port will have under connector type the letters C and A.

Connector A



AUI Connector

CONNECTOR A

10Base-5 (**AUI Connector**):–

Attachment Unit Interface. Most commonly used with reference to the 15 pin D type connector.

Connector B



BNC Plug

CONNECTOR B

10Base-2 (**BNC Connector**):–

An Ethernet connector often described as TV aerial like.

Connector C



RJ-45 Connector

CONNECTOR C

10Base-T/100Base-TX (**RJ-45 Connector**):–

A type of network connector commonly compared with a telephone socket.

Connector D



ST Plug

CONNECTOR D

Fibre Optic (**ST Connector**):–

A registered trademark of AT&T for their fibre optic connector.

Connector E



SC Plug

CONNECTOR E

Fibre Optic (**SC Connector**):–

The SC utilises the same 2.5mm ferrule as the ST, held in a housing that allows for push pull insertion and removal of the connector from the adaptor.

Connector F



DB 9-way Female

CONNECTOR F

DB 9-way Female:–

For connection to shielded twisted pair (STP) Token Ring networks.

OTHER ITEMS

FOR NETWORKING PRODUCT INDEX SEE PAGES 638, 639

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

GUIDE TO NETWORK ADAPTOR CARDS

NETWORK ADAPTORS

What is a network adaptor?

Any user PC that you wish to connect to the network will require a network adaptor card, also known as a Network Interface Card (NIC). This device provides the necessary connection for the network cabling to fit to your user PC. In addition it is responsible for the transfer of information between the network and the user PCs memory. A network adaptor is simply an add-in board, which physically plugs onto the motherboard of your user PC, network server or mobile user notebook (via the PCMCIA slot). To control how network information is exchanged via the network, adaptors come in a variety of configurations and port connections depending on which network access method, network cabling and type of network you use. Manufacturers are now producing adaptor cards for both client PCs and Servers – the latter offering greater reliability and performance. It is often overlooked that a simple, inexpensive adaptor card can negate the benefits of a costly network. With this in mind, your choice must best balance high data throughput and low CPU utilisation within the context of both your network and user PCs.

See page 660, 661 for **Wireless** Network Adaptors

Adaptor Cards	Page
3Com	654, 655
D-Link	658
Intel	652, 653
Lucent	660
Madge	659
Netgear	657
ZoomAir	660

Features and how will they benefit me?

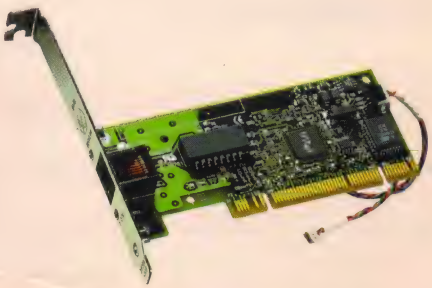
You will find network adaptors with varying types of connections for any cabling system, however some network adaptors will offer more than a single connection thus allowing you to change or upgrade your cabling system without the extra cost of buying new network adaptors.

What does it connect to and where does it fit into my network?

The network adaptor connects directly to the motherboard of your user PC by way of an expansion slot, there is also a port on it to connect to the network cabling system. This is shown in the diagram.



44-90-01



89-39-63

OTHER ITEMS

FOR NETWORKING PRODUCT INDEX SEE PAGES 638, 639

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FAST ETHERNET NETWORK CARDS

intel

PLUG PLAY



Connector C



RJ-45 Connector

The **Intel PRO/100+ Management Card** reduces support costs with its advanced management capabilities and improves network response time through its industry leading performance. The PRO/100+ is suitable for all network sizes whether Ethernet or Fast Ethernet LANs and its widespread compatibility ensures interoperability with all major networks and PC operating systems. With the PRO/100+ installed in your desktop systems you can begin building a fully manageable network with such advanced management features as Wake on LAN for remote PCs.

Intel® PRO/100 TX ISA Adaptor
This adaptor provides high-performance and flexible connectivity for your legacy ISA desktops. It supports 10/100 and full-duplex autonegotiation, so your older PCs can adapt easily as your network evolves to support higher bandwidth solutions.

KEY FEATURES:
- Easy migration from 10Mbps Ethernet to 100Mbps Fast Ethernet.
- High performance for legacy ISA PCs.
- Ethernet and Fast Ethernet LANS, all network sizes.
- Common base drivers across Intel PRO/100 desktop adaptors minimises the number of driver suites to maintain.

KEY FEATURES:
Network Topology – 10BASE-T, 100BASE-TX, IEEE standard VLAN Support (802.1Q) RJ-45 connector
Adaptor Product Features – Adaptive Technology, Automatic driver installation
Network Management – ACPI Support Wake on LAN. Board and network diagnostics
Technical Features – IEEE support 802.2 and 802.3. Controller Intel 82559
Limited Lifetime Warranty

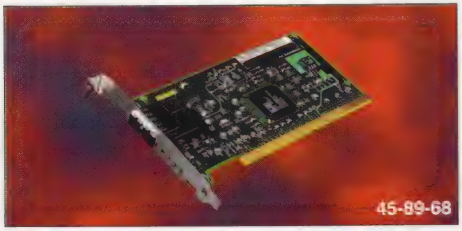
	DESCRIPTION	CONNECTOR TYPE	FOR USE WITH	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	ETHEREXPRESS PRO 100+ MANAGEMENT CARD 10/100Mbps							
	EtherExpress PRO/100+	C	PCI	89-39-63	41.30	43.21	42.78	42.35
	EtherExpress PRO/100+ **(5 pk)**	C	PCI	89-39-70	189.18	◗	195.95	193.99
	EtherExpress PRO/100+ **(20 pk)**	C	PCI	44-76-70	734.29	◗	760.55	752.94
	EtherExpress PRO/100+ **(80 pk)**	C	PCI	87-22-07	2753.90	◗	◗	2760.52
NEW	PRO/100 Security Management Adaptor	C	PCI	47-38-99	51.87	58.22	56.47	54.78
	ETHEREXPRESS PRO 100TX ISA ADAPTOR							
	EtherExpress PRO/100 TX ISA Adaptor	C	ISA	49-54-36	98.43	◗	100.06	99.46
	EtherExpress PRO/100 TX ISA Adaptor **(5 pk)**	C	ISA	49-95-30	455.41	◗	462.96	460.18

OTHER ITEMS
FOR INTEL SERVER ADAPTORS SEE PAGE 653
FOR INTEL RANGE OF HUBS SEE PAGES 663–665

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

SERVER ADAPTORS intel

Improve uptime and throughput for your network servers with highly scalable and cost-effective solutions from Intel. Whether you're using a simple file server, a transaction-oriented database server, a corporate intranet server or an enterprise-wide application server, Intel Server Adaptors increase performance and availability. They'll help you implement a smooth migration from Ethernet to Fast Ethernet to Gigabit Ethernet for mission-critical applications.



Intel PRO/1000 Gigabit Server Adaptor
Along with the new Intel Express Gigabit Switch, this 32- or 64-bit PCI adaptor provides a next-generation solution that can eliminate bottlenecks and integrate easily with your Ethernet and Fast Ethernet infrastructure.

FEATURES:
- Industry-leading performance with a highly integrated Intel controller.
- Increased server availability through Adaptor Fault Tolerance and PCI Hotplug.
- Lower total cost of ownership through Wired for Management support.

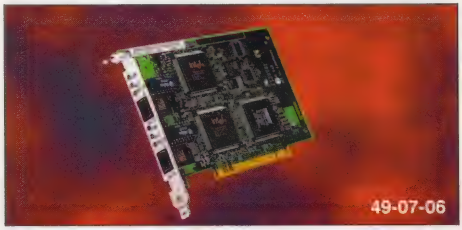
Intel PRO/100 Intelligent Server Adaptor
This adaptor can significantly improve performance and scale bandwidth for high-demand servers operating NetWare, UNIX or Windows NT environments. Busy web servers will benefit most from the added power of the on-board i960 processor.

FEATURES:
- On-board i960 processor delivers low CPU utilisation.
- Server bandwidth scales up to 800Mbps.
- High-link availability through Adaptor Fault Tolerance.

Connector C



RJ-45 Connector



Intel PRO/100+ Server Adaptor
The Intel PRO/100+ Server Adaptor delivers a cost-effective solution for boosting server throughput, while improving the availability of your network link. It also supports standards-based remote server management.

FEATURES:
- Featuring the new powerful Intel® 82559 Fast Ethernet Controller.
- Server bandwidth scales up to 800Mbps.

Intel PRO/100+ Dual Port Server Adaptor
The benefits of the Intel PRO/100+ Server Adaptor are now available for departmental and workgroup servers that don't have PCI slots to spare. Each adaptor delivers up to 400Mbps, so you get twice the bandwidth per server slot.

FEATURES:
- Two 10/100Mbps ports on one card.
- Server bandwidth scales to 800Mbps.
- High-link availability through Adaptor Fault Tolerance.

Networking pre-sales team 08701 663322

DESCRIPTION	CONNECTOR TYPE	FOR USE WITH	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
PRO/1000 Gigabit Server Adaptor	C	PCI	45-89-68	392.31	➧	398.82	396.43	
PRO/1000 Gigabit Server Adaptor (**5 pack**)	C	PCI	45-89-75	1863.80	➧	➧	1883.35	
PRO/100 Intelligent Server Adaptor	C	PCI	89-63-00	199.79	➧	203.10	201.88	
PRO/100 Intelligent Server Adaptor (**5 pack**)	C	PCI	26-18-32	907.47	➧	922.52	916.98	
PRO/100+ Server Adaptor	C	PCI	45-15-32	59.21	60.56	60.20	59.84	
PRO/100+ Dual Port Server Adaptor	2×C	PCI	49-07-06	149.66	➧	152.14	151.23	
PRO/100 Security Server Adaptor	C	PCI	47-27-75	63.47	71.24	69.10	67.03	NEW

OTHER ITEMS FOR INTEL HUBS SEE PAGES 663–665

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FAST ETHERNET NETWORK CARDS



3Com's Fast EtherLink XL and **Fast EtherLink** cards set the industry standard for performance. With 3Com's exclusive Parallel Tasking technology, you get top speeds at both 10Mbps and 100Mbps.
Fast EtherLink cards support 10/100Base-TX for EISA and ISA bus and 10/100Base-T4 and TX for the PCI bus.

FEATURES:

- Compatible with Novell NetWare v2.x and 3.1 client, 3.12, 4.0 and 4.1 client and server (except ISA). Microsoft Windows NT (except ISA) and Windows 95 (except EISA and PCI-T-4).
- Parallel Tasking architecture increases throughput – up to 133% faster than competing cards.
- 32-bit bus mastering (PCI and EISA).
- 10/100Base-T functionality with automatic reconfiguration.
- RAM Partitioning flexibility.
- AutoLink auto-installation software.
- Lifetime warranty.

Fast EtherLink Server Network Interface Card
The **3Com 10/100 Fast EtherLink Server** network interface card (NIC) provides unparalleled server availability.
To enhance network performance, the Fast EtherLink Server NIC supports Load Balancing, that boosts server throughput by distributing packet transfer among multiple NICs. The result is higher bandwidth between the server and switch, eliminating bottlenecks at the server.

KEY BENEFITS:

Performance: Load Balancing software distributes network traffic among multiple NICs. Parallel Tasking II performance takes advantage of the lates PCI bus designs, lowering server CPU utilisation.
Scalability: Load Balancing software can distribute traffic among as many as eight server NICs, delivering scalable bandwidth up to 800Mbps.
Compatibility: The Fast EtherLink Server NIC supports Windows NT, NetWare, SCO Unixware and OpenServer.

Management Functions:
This high-performance server NIC uses Managed PC Boot Agent (MBA), enhanced Remote Wake Up (RWU) with Keepalive, and Hearbeat monitoring and complies with Wired for Management (WfM) 1.0, Advanced Configuration Power Interface (ACP) 1.0, and Desktop Management Interface (DMI) 2.0 – to provide time-saving remote management tools.

Gigabit EtherLink Server Network Interface Card
3Com's Gigabit EtherLink Server interface card provides the bandwidth capacity to support high-end servers, delivering added performance to the LAN while working with the existing LAN infrastructure.
The auto-configuring 66 and 44MHz 64/32-bit PCI NIC relieves server congestion, bringing greater bandwidth to high-end servers.
An integral component of 3Com's end-to-end Gigabit Ethernet solution, the Gigabit EtherLink Server NIC combines the benefits of higher Gigabit performance with the familiarity of Ethernet.

DESCRIPTION	PART NO	FOR USE WITH	CAT NO.	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
EtherLink 10/100Mbps Server NIC	3C980C-TXM	PCI	48-17-73	59.76	62.05	61.43	60.82
EtherLink Gigabit Server NIC	3C985B-SX	PCI	49-95-70	428.58	◗	440.58	436.17
EtherLink XL 10/100Mbps NIC	3C905C-TX	PCI	84-33-15	49.56	50.69	50.39	50.08
EtherLink XL 10/100Mbps NIC **(25 pack)**	3C905C-TX	PCI	49-54-89	1083.73	◗	◗	1095.10
Fast EtherLink 10/100Mbps NIC	3C515-TX	ISA	84-33-84	93.84	95.97	95.39	94.82
Fast EtherLink 10/100Mbps NIC **(25 pack)**	3C515-TX	ISA	49-32-55	2148.13	◗	◗	2153.29

For 3Com 10Mbps Ethernet Cards see page 655.

OTHER ITEMS
FOR ETHERNET CARD GUIDE SEE PAGE 651

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ETHERNET NETWORK CARDS

3com

3Com EtherLink III network interface cards deliver unmatched reliability and software compatibility.

- **Intelligent bandwidth management.** Parallel Tasking technology and Dynamic Access optimise overall network performance.
- **Ease of use.** Plug and Play and 3Com's AutoLink™ auto-installation and configuration.
- **Proven reliability.** For optimal reliability, the EtherLink card's components are integrated into one ASIC.
- **Manageability.** The cards provide SNMP and DMI manageability; XL cards will also support Desktop dRMON.



Model	3Com EtherLink III and EtherLink XL Ethernet Network Cards
Media	Coax, 10Base-T and coax/10Base-T combo versions
Bus widths	16-bit ISA, 16/32-bit MCA, 32-bit PCI, 32-bit EISA bus master, 16-bit PC Card
System requirements	32-bit PCI: PCI 2.1 compliant computers; 16-bit ISA: IBM PC AT and PS/2 and compatibles with ISA buses and EISA computers; 32-bit EISA: EISA computers; 16/32-bit MCA: IBM 16 or 32-bit Micro Channel architecture PS/2 models and compatibles; PC Cards: Notebook/laptop PC Card slot or PCMCIA 2.0/2.1 slot
Connectors	Combo: BNC, RJ-45, AUI; TPO: RJ-45; TP: RJ-45, AUI; TPC: RJ-45, BNC; PC Cards: RJ-45, RJ-11, BNC
Management	SNMP Manageability through 3Com's Transcend PC Link SmartAgent software (3C551B)
Service & support	Lifetime warranty, free round-the-clock support

Networking pre-sales team 08701 663322

DESCRIPTION	CONNECTOR TYPE	FOR USE WITH	CAT NO.	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
3C509B – TPO (**single**)	C	16-Bit ISA	84-31-40	33.87	34.64	34.43	34.23
3C509B – TPO (**25 pack**)	C	16-Bit ISA	49-71-00	745.59	▶	757.96	753.41
3C509B – TP (**single**)	C/A	16-Bit ISA	73-15-37	62.11	63.52	63.14	62.76
3C509B – TP (**25 pack**)	C/A	16-Bit ISA	49-23-31	1220.15	▶	▶	1232.95
3C509B – TPC (**single**)	C/B	16-Bit ISA	44-35-19	40.93	41.86	41.61	41.36
3C509B – TPC (**25 pack**)	C/B	16-Bit ISA	49-32-56	923.12	▶	938.43	932.80
3C509B – COMBO (**single**)	C/B/A	16-Bit ISA	73-15-51	70.58	72.18	71.75	71.32
3C509B – COMBO (**25 pack**)	C/B/A	16-Bit ISA	49-54-94	1437.79	▶	▶	1452.87
3C900B – TPO (**single**)	C	32-Bit PCI	84-32-36	31.05	31.76	31.57	31.38
3C900B – TPO (**25 pack**)	C	32-Bit PCI	49-54-93	704.88	▶	716.57	712.27
3C900B – COMBO (**single**)	C/B/A	32-Bit PCI	84-32-05	75.29	77.00	76.54	76.08
3C900B – COMBO (**25 pack**)	C/B/A	32-Bit PCI	49-95-69	1666.87	▶	▶	1684.35

OTHER ITEMS
FOR NETWORK CABLES SEE PAGES 599–616
FOR TOKEN RING NETWORK ADAPTORS SEE PAGES 659

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶ Save £££'s!
▶▶ Check live stock
▶▶ Track order status

NETWORK INTERFACE CARDS

Allied Telesyn International



AT-2400T AT-2400BT
- Significant cost savings over 10/100 cards
- Fast and easy installation with automatic configuration
- Full-Duplex operation for increased throughput
- 32-bit PCI Bus-Mastering architecture
- Supports all major network operating systems
- IEEE 802.2 and ISO/IEC 8802-3 compliant
- PCI 2.1 compatible
- Lifetime warranty

NE2000 Compatible Ethernet Adapters AT-2000T
- Plug and Play
- Full-Duplex
- Fully compatible with industry-standard NE2000 drivers
- All popular networks supported
- 16-bit ISA bus with 16Kb on-board memory
- Auto-sensing media connectors
- Fully IEEE 802.3 compliant, Ethernet compatible
- Lifetime warranty

AT-2500TX (10BASE-T, 100BASE-TX) 10/100 PCI Fast Ethernet Adapter
- Fully supports Microsoft's PC'98 standard, including ACPI/Wake-On-Lan
- Auto-negotiation and auto-sensing
- Full-Duplex operation
- 32-bit PCI Bus-Mastering architecture
- IEEE 802.2, 802.3u, and ISO/IEC 8802-3 compliant
- Fully PCI 2.1 compliant
- Lifetime Warranty

AT-2560FX/ST, AT-2560FX/SC
- Fully supports IEEE 802.3u 100Base-FX Ethernet over Fiber
- Full-Duplex Fast Ethernet (FDFE)
- Supports network segments to 2km in Full-Duplex mode
- Ideal for use in "electrically noisy" environments
- High-throughput, low-CPU utilisation
- Automatically configures on power-up
- Available with ST (twist-on) or SC (push-on) connector
- Lifetime warranty

AT-2450T (UTP) **AT-2450BT** (UTP and BNC)
- Improved performance through reduced CPU utilization
- Auto-configurable on power-up
- 32-bit PCI bus, version 2.1 compatible
- Full-Duplex operation
- Four diagnostic LEDs and diagnostic software
- IEEE 802.3 and ISO/IEC 8802-3 compatible
- Lifetime warranty

Networking pre-sales team
08701 663322

DESCRIPTION	CONNECTOR	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
AT-2000BTH Plug & Play NE2000 Compatible Card	B/C	49-20-03	12.83	13.32	13.19	13.05
AT-2400T 10Mbps PCI Adaptor Card (UTP only)	C	49-20-27	12.74	13.23	13.10	12.97
AT-2400BT 10Mbps PCI Adaptor Card (UTP only)	B/C	49-20-34	13.54	14.06	13.92	13.78
AT-2450BT 10Mbps PCI Adaptor Card (UTP only)	B/C	84-18-29	40.63	42.19	41.77	41.35
AT-2450FT/ST 10Mbps PCI Adaptor Card w/Fibre ST	C/D	84-18-36	64.96	67.45	66.78	66.11
AT-2500TX 10Mbps PCI Adaptor Card w/ACPI Support	C	49-20-41	11.56	12.00	11.88	11.76
AT-2500TX BUY 5 GET ONE FREE	C	48-53-48	69.29	71.95	71.23	70.52
AT-2560FX/ST 100Mbps Fibre Ethernet Adaptor	D	84-30-88	107.53	◆	110.54	109.43
AT-2560FX/SC 100Mbps Fibre Ethernet Adaptor	E	85-17-57	108.66	◆	111.70	110.58

OTHER ITEMS FOR NETWORK CABLE GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

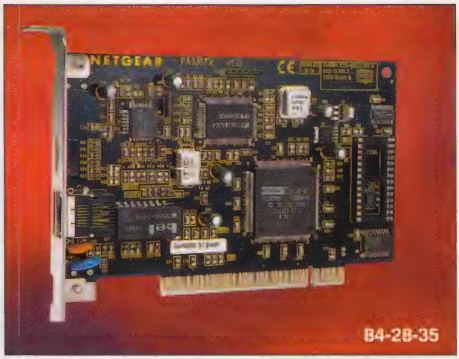
FAST ETHERNET NETWORK CARDS

NETGEAR

NETGEAR offers a choice of network cards to suit your 10Base-T or 100Base-TX requirements. All cards are Plug-n-Play for fast easy installation. LED indicators display card status and network activity Support is provided for Windows, NetWare and UNIX (except GA620 - Windows & NetWare drivers only).

The **NETGEAR FA310TX 10/100Mbps PCI Adaptor** autosenses and operates in both a 10Mbp and 100Mbps network environment.

FEATURES:
- 10/100 Mbps operations.
- Autosensing RJ-45 interface.
- Quick 'one-step' installation.
- Lifetime warranty.
- Full or half duplex.



The **GA620 Gigabit Network Card** opens up the network traffic bottleneck by providing a full duplex link at 1 Gbps each way to the network server. The GA620 is a smart card and will offload much of the traffic management from the server, including directly copying traffic in and out of memory without server intervention and consolidating multiple host interruptions. The result is the server preserves much of its power for providing its data processing services.
The GA620 is Plug-and-Play compliant and installation is simple with instructions provided in a poster style foldout. The GA620 can be used with any Pentium compatible system with a 32 or 64-bit PCI bus running Windows NT or Novell NetWare.

GA620/GA620T
FEATURES:
- Gigabit Ethernet SC Fibre Port (GA620).
- Gigabit 100Base-TX/1000Base-T Auto-sensing port (GA620T).
- High Performance PCI 32/64 bit Bus.
- Multimode Full Duplex for up to 2 Gigabit Throughput.
- CruiseControl Offloads Host CPU.
- Demonstrated interoperability with IEEE 802.3z Gigabit Equipment.

BUY 5 FA310TX NETWORK CARDS (84-28-35) GET 1 FREE
Offer until 1st May-30th June

Connector C



RJ-45 Connector

PC MAGAZINE EDITORS' CHOICE May 26, 1998 NetGear





Networking pre-sales team 08701 663322

MODEL	CONNECTOR	FOR USE WITH	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
NETGEAR FA310TX 10/100-TX	C	32-bit PCI	84-28-35	13.05	13.65	13.51	13.38	✂
NETGEAR FA310TX 10/100-TX – **10 pack**	C	32-bit PCI	47-08-67	128.57	◗	132.17	130.85	
NETGEAR FA310TX 10/100-TX / **50 pack**	C	32-bit PCI	49-54-71	619.06	◗	636.39	630.03	
NETGEAR FA311 10/100 TP PC2000	C	32-bit PCI	49-56-02	14.39	15.06	14.91	14.76	NEW
NETGEAR FA312 10/100 TP WOL	C	32-bit PCI	49-96-45	16.65	17.42	17.25	17.07	NEW
NETGEAR GA620 - Gigabit Ethernet PCI Card	E	32-bit PCI	49-07-44	195.90	◗	202.91	200.88	
NETGEAR GA620T Copper Gigabit	C	32/64 PCI	47-53-68	195.90	◗	202.91	200.88	NEW

OTHER ITEMS
FOR NETWORK CABLE GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ETHERNET + FAST ETHERNET NETWORK CARDS

D-Link





The DFE-538TX is a high-performance NWay 10/100Mbps PCI bus adaptor with **Wake-On-LAN (WOL)** support

The adaptor operates in the 32-bit bus master mode, delivering throughputs at multi-megabits per second with little stress on the host's CPU. Supporting PCI clock speeds of up to 40MHz independently of network clock, it transfers data directly to/from the host's memory, by passing the CPU to alleviate the host's workload.

- 32-bit PCI Local Bus
- Wake-On-LAN (WOL) Magic Packet, Microsoft wake-up frame
- Ethernet/IEEE 802.3 10Base-T and Fast Ethernet/IEEE 802.3u 100BASE-TX
- NWay Auto-negotiation support
- Full-Duplex or half-duplex operation
- Built-in FIFO buffers
- Boot ROM socket
- 2 LED indicator, Link, Activity

DFE-530TX FEATURES:

- 10/100Mbps.
- Full duplex.
- PCI compatible.
- Two independent 256-byte FIFOs.
- Supports all major NOS.
- Remote boot ROM.

DE-528CT FEATURES:

- 10Base-T/BNC.
- Full duplex.
- BNC.
- PCI compatible.
- Supports all major NOS.
- Remote boot ROM.

DFE-570TX FEATURES:

- 4 × 10/100Mbps ports.
- PCI compatible.
- Half/full duplex.
- 32-bit bus master.
- Up to 800Mbps server-to-switch trunk.
- Built-in SNMP MIBs.
- IP, IPX, NetBEUI supported.

Networking pre-sales team
08701 663322

Connector B



BNC Connector

Connector C



RJ-45 Connector

DESCRIPTION	CONNECTOR TYPE	FOR USE WITH	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DFE-538TX NWay 10/100 WOL	C	32-bit PCI	48-17-67	18.14	18.84	18.65	18.47
DFE-530TX 10/100Mbps	C	32-bit PCI	47-05-51	14.93	15.50	15.35	15.19
DFE-570TX 4-port 10/100	C	32-bit PCI	49-70-29	146.61	◗	150.71	149.20
DE-528CT + PCI	C/B	32-bit PCI	47-05-37	10.88	11.30	11.19	11.08
DE-528CT + PCI (**6 pack**)	C/B	32-bit PCI	47-05-44	58.05	60.28	59.68	59.08
DE-220PCT	C/B	16/8-Bit ISA	79-76-05	8.21	8.52	8.43	8.35
DE-220PCT (**6 pack**)	C/B	16/8-Bit ISA	89-06-43	43.53	45.20	44.75	44.30
DE-220PCT (**50 pack**)	C/B	16/8-Bit ISA	44-06-77	367.98	◗	378.28	374.50

OTHER ITEMS FOR D-LINK HUBS SEE PAGES 676, 677

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

TOKEN RING & ETHERNET ADAPTORS

olicom

Madge Presto PCI Plus WOL
- 32-bit bus mastering.
- Plug 'n' Play installation.
- Auto ring speed detection.
- Ideal for new desktops.
- Unattended install options.

Madge Smart 16/4 ISA Client PnP
- 16/32-bit PIO data transfer.
- ISA Plug 'n' Play.
- Soft configurable ring speed.

Madge Blue + ISA PnP
- 16-bit shared memory.
- ISA Plug 'n' Play.
- Auto ring speed detection.
- 100% IBM LSP compatible.

Madge Smart 100/16/4 PCI
- 32-bit PCI.
- Auto ring speed detection.
- LED network indicators.
- 64KB SDRAM on-board.



Olicom 100/16/4 PCI OC-3540
- 100Mbps HSTR performance between switches/ servers.
- Automatic detection af LAN speed (4, 16 or 100Mbps).
- Extensive power management support.
- Plug and Play and PCI Hot Plug support.
- Wake-up and aux power supply support through PCI.

Olicom 16/4 PCI OC-3140
- PCI Plug 'n' Play. 'Hot Swap' support.
- Full WOL (Wake on Lan) support.
- PowerMACH drivers for Novell, Microsoft and IBM.

Networking pre-sales team 08701 663322

Connector C	Connector F
	
RJ-45 Connector	DB-9 way Female

DESCRIPTION	PART NO	CONNECTOR TYPE	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Olicom Token Ring PCI UTP	OC-3140	F/C	49-04-38	105.85	➧	108.81	107.72	
Olicom Token Ring 100/16/4 PCI NIC UTP	OC-3540	F/C	49-07-75	172.00	➧	176.82	175.05	
Olicom Token Ring 16/4 PCI Cardbus	OC-3250	F/C	49-17-98	173.19	➧	178.04	176.26	
Madge Presto PCI Plus WOL	60-07	F/C	48-17-61	75.16	78.04	77.26	76.49	✂
Madge Smart 100/16/4 PCI WOL	51-05	F/C	47-70-34	101.78	➧	104.63	103.58	NEW
Madge Smart 16/4 ISA Client PnP	22-04	F/C	81-48-70	51.17	53.13	52.60	52.07	

OTHER ITEMS FOR TOKEN RING PCMICA ADAPTORS SEE PAGE 746

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

WIRELESS NETWORK — Lucent Technologies ZOOM

WavePOINT-II Access Point
WavePOINT-II AP is a second generation wireless bridge for Ethernet networks that features a unique dual PCMCIA slot architecture.

FEATURES:

- Double Network Capacity. The dual PCMCIA slot architecture allows you to use two WaveLAN/ PCMCIA cards, each on a different frequency channel.
- Increase your Coverage. Create a wireless backbone, with the wireless-to-wireless bridging feature, that allows you to build an extension to your wired network without expanding the wired backbone.
- Protect your Investment. The dual PCMCIA slot architecture provides a migration path to future wireless LAN technologies.

WaveLAN IEEE Turbo 11MB PC Card (Silver/Gold)
Designed for today's powerful laptops, hand-held computers and other mobile devices, the Turbo 11MB PC Card delivers the same instant, high performance connectivity as wired systems plus the freedom to move around your building or campus.

WaveLAN IEEETurbo 11MB ISA/PCI Solution*
The Turbo 11MB product provides Ethernet equivalent network throughout performance with the reliability you expect from Bell Labs technology.
**The ISA/PCI product package consists of a sole adaptor card: the PC card, which completes the solution, has to be ordered as a separate item.*

WaveLAN IEEE Range Extender
The Range Extender is a 5 dBi indoor omni-directional antenna that provides extra coverage over the existing coverage of standard WaveLAN IEEE products.

Lower Cost of Ownership
The Range Extender can be used in combination with the WavePOINT-II Access Point.



ZoomAir wireless networking products provide affordable, industry-standard LAN with easy installation. Just install the software, plug the ZoomAir ISA network card or ZoomAir PC card into a Windows 95, 98 or NT4.0 computer, and the network connection is complete.
ZoomAir's 802.11 compatability allows a choice of network equipment from multiple suppliers to meet a variety of system needs.
Advanced performance features of the ZoomAir include intelligent power control, with a power-saving standby mode to maximise laptop battery life and Flash memory for easy upgrades.
ZoomAir Access Point software connects a ZoomAir wireless network to an existing wired 10Base-T or 100Base-T network, provides shared access to a single Internet connection, enhances network security, and expands the range of a ZoomAir wireless network.

Features of ZoomAir Wireless Network:

- Industry standard (IEEE 802.11 DSSS).
- Makes any Windows 95/98 or NT 4.0 computer into a wireless networked workstation.
- Supports all LAN applications including data sharing, network printing and Internet access.
- Utilises advanced and secure DSSS (Direct Sequence Spread Spectrum) technology.
- Data transfer speeds up to 2 Mbps.
- Incorporates Wired Equivalent Privacy (WEP) security.
- 'Future based' technology compatible with upcoming higher-speed data transfer rates.

Networking pre-sales team 08701 663322

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Lucent WavePOINT-II Access Point	49-95-72	723.64	➧	743.90	736.46
Lucent WaveLAN IEEE Turbo 11MB PC Card	49-52-01	159.12	➧	163.57	161.93
Lucent WaveLAN IEEE Turbo 11MB ISA Solution	49-60-69	53.64	55.70	55.14	54.59
Lucent WaveLAN IEEE Turbo 11MB PCI Solution	49-78-54	53.64	55.70	55.14	54.59
Lucent WaveLAN IEEE Range Extender	49-86-99	1005.15	➧	➧	1022.96
ZoomAir PCMCIA Card	49-18-38	60.95	63.77	63.13	62.50
ZoomAir ISA Card	49-31-38	60.95	63.77	63.13	62.50
ZoomAir Access Point software	49-54-04	24.37	25.50	25.25	24.99

OTHER ITEMS FOR NETWORK SOFTWARE SEE PAGES 896–944

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

WIRELESS NETWORK

3Com ELSA

3Com's AirConnect 11Mbps Wireless LAN PC Cards and Access Points deliver simple, reliable and manageable wireless connections at Ethernet speeds. Dynamic rate shifting and load balancing ensure connectivity, while support for DHCP and Extended Roaming allow for seamless roaming between Access Points and across router boundaries. Access control capabilities keep your network and your data safe. AirConnect network interface cards install in minutes on Windows 95, 98 2000 and Windows NT 4.0. The AirConnect Site Survey Utility and PowerBASE-T features simplify network set-up, while DynamicAccess™ Mobile Connection Manager makes it easy to configure network connections. Once installed, any Web browser or SNMP-based management tool can be used to configure and monitor Access Points across the network. AirConnect is IEEE.802.11b compliant, ensuring standards-based interoperability.

FEATURES:

- Fast. Up to five times faster than previous WLAN products.
- Reliable. Each Access Point supports up to 63 simultaneous users, at distances of up to 300 feet (100m).
- Easy to install and use. AirConnect Site Survey Uitility and PowerBASE-T features simplify network set-up.
- Easy to manage. Use any Web browser or SNMP-based management tool to configure and monitor Access Points across your network.



- Mobile. DHCP and Extended Roaming features help you maintain network connectivity when moving across IP subnets.
- Compatible. Integrates into any Ethernet network.

The Starter Pack includes 1 Access Point & 3 PC Cards.
For full contents of 48-17-18, and 49-96-49 please see the Action.com website.

ELSA's AirLancer wireless cards enable the easiest wireless networking of notebooks or desktop PCs. In the simplest case, all PCs equipped with AirLancer cards can contact each other directly without the need for any further equipment (so-called spontaneous or ad-hoc networks). In conjunction with LANCOM Wireless base stations, the PCs can be connected to an existing wired Ethernet, or even to the ISDN using the LANCON Wireless IL-2.

FEATURES:

- Mobility, flexibility and economy thanks to wireless network communications.
- Network cards for wireless LANs (PCMCIA and ISA).
- IEEE 802.11 and DSSS compliant.Transfer speed: 2Mbps.
- Range approx. 30m in buildings; approx. 300m in the open.
- Plug & Play installation.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
3Com Wireless PC Card	48-17-18	111.11	➧	114.22	113.08	NEW
3Com Starter Pack	49-71-56	910.71	➧	936.20	926.84	NEW
3Com Access Point Software	49-96-49	606.28	➧	623.25	617.02	NEW
ELSA AirLancer PC Card (M-2)	47-70-30	160.51	➧	165.00	163.35	NEW
ELSA AirLancer ISA Card (ISA-2)	47-22-68	193.58	➧	199.00	197.01	NEW
ELSA Access Point Software (IL-2)	47-17-31	413.93	➧	425.52	421.26	✂

OTHER ITEMS FOR FULL RANGE OF UPS SEE PAGES 640–649

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

All you need to know about Hubs . . .

What is a hub?

In its simplest form a hub is a central location for the attachment of cabling from a number of user PCs. When original networks were introduced they were created by connecting each user PC in a daisy-chain fashion. Once all user PCs were connected you would close each end of the cable with a terminator (used to terminate the information signal) and start up your network. However, this design brought about its own set of problems, for example if a portion of cable was bent or crushed or even if a single connection had been forgotten, your network would not run. The biggest ongoing overhead of creating this type of network was trying to locate the problem. To help combat this and other problems the hub was designed.

One of the greatest advantages of having a hub on your network is that it provides fault tolerance (protection from total network failure if you lose one connection). By giving each individual user PC a single cable connection to their individual hub port, only that user is affected if the connection or cable is broken. This means that all other users can carry on working without experiencing any adverse effect.

What does it connect to & where does it fit into my network?

A hub will connect to your server and any user PC within your network structure, picture below you will see how it fits into a simply structured network:

10Base-T Hubs	Page
Allied Telesyn	678, 679
D-Link	676, 677
HP	680, 681
Intel	663–665
Netgear	672–675
3Com	666–671
100Base-T Hubs	
HP	681
Netgear	672–675
3Com	668–671
Intel	664, 665
10/100Base-TX Hubs	
3Com	666–671
Allied Telesyn	679
Cisco	682
D-Link	677
HP	681
Intel	663–665
Netgear	672–675



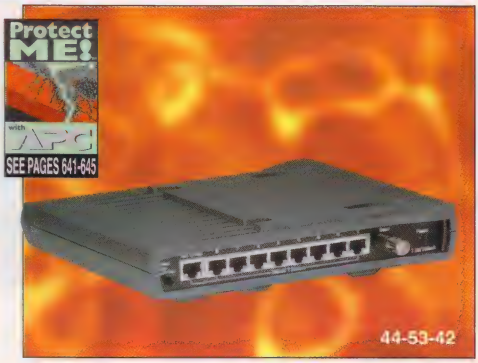
OTHER ITEMS

FOR NETWORK PRODUCT INDEX SEE PAGES 638, 639

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ETHERNET/FAST ETHERNET HUBS – STANDALONE intel

Intel InBusiness 5- and 8-port Ethernet Hubs are designed so you can easily create your own small 10Base-T Ethernet network. Installation is so simple you can literally start sharing resources within minutes. The hubs SureStack design allows you to connect them horizontally or vertically, and they are small in size so you can stack them right on your desktop. The 8-Port Hub is available with an optional coax (BNC) connector for connecting to a thin Ethernet network.



FEATURES:
- Easily connects devices to create a 10Base-T Ethernet network or workgroup.
- Simple installation, no software required.
- Special 'crossover' port for easy network expansion.
- Optional coax (BNC) connector on 8-port (SH10T8B) version for connecting to a Thin Ethernet network.

Manufacturer's Part No.	SH10T5	SH10T8	SH10T8B	SH100TX4	SH100TX8	SH101TXUK
No. & type of ports	5×RJ-45	8×RJ-45		4×RJ-45	8×RJ-45	
Backbone port	No		1×BNC	1×RJ-45 (10/100MB)		No
Network speed	10Mbps			100Mbps		10/100Mbps
Management capability	No					
Type of standard	IEEE 802.3					
Dimensions	145×148×48mm	212×165×48mm		145×148×48mm	212×165×48mm	
Weight	1.2kg			1.25kg		
Warranty	3 Years					
Network cards	See page 652					

Intel InBusiness 4- and 8-port Fast Ethernet Hubs are designed so that you can easily connect devices to a small and cost-effective 100Base-T Ethernet network. The hubs plug and play functionality makes installation so simple; you'll have your network up and running in minutes. A special 'crossover' port allows you to connect the Intel InBusiness hub to other hubs without special wiring, making network expansion a breeze.

FEATURES:
- Easily connects to create a Fast Ethernet network or workgroup.
- Simple installation, no software required.
- Special 'crossover' port for easy network expansion.
- Optional 10/100 port connection to 10Base-T LANs or server.
- Limited lifetime warranty.

The new Intel InBusiness 8-Port 10/100 Fast Hub can operate at either 10 or 100Mbps, making it ideal for those who want to make a gradual transition to 100Mbps Fast Ethernet Technology.

DESCRIPTION	PART NO	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Intel InBusiness 5-Port 10Base-T Hub	SH10T5	44-53-35	29.77	30.91	30.60	30.29
Intel InBusiness 8-Port 10Base-T Hub w/BNC	SH10T8B	44-53-42	48.38	50.24	49.74	49.24
InBusiness 4-Port 100Base-TX Fast Hub	SH100TX4	44-53-59	61.77	64.14	63.50	62.86
InBusiness 8-Port 10/100Base-TX Auto-sensing Fast Hub	SH101TXUK	46-26-62	102.14	➧	105.00	103.95

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
>> Save £££'s!
>> Check live stock
>> Track order status

DUAL SPEED HUBS – STANDALONE

intel

Protect ME! with APC
SEE PAGES 641-645



Intel Express 140T Standalone Hubs 10/100 auto-sensing per port are for mixed bandwidth workgroups. With 10/100 auto-sensing per port, these 16-port and 24-hour port hubs enable you to connect 10Mbps and 100Mbps clients in any combination. You can migrate your small workgroups and branch offices to Fast Ethernet one user at a time.
Designed for quick installation and easy use, Intel Standalone Hubs bring Fast Ethernet performance to small workgroups and branch offices. Since no configuration is required, these hubs are ideal for sites with no resident IT staff.

Networking pre-sales team
08701 663322

FEATURES:

- Easy to read hub status – Monitor network traffic, collisions, utilisation and port status with the easy-to-read front-panel LEDs.
- Flexible 10/100Mbps auto-sensing – All ports automatically deliver the highest bandwidth supported by any connected device.
- Need to support more users? Just daisy-chain two Express 140T Standalone Hubs together (using MDI or MDIV ports) for as many as 46 10/100Mbps auto-sensing connections.
- Quick, effortless set up – The Express 140T Standalone Hubs are self-configurating. It installs in minutes and features intuitive monitoring using the front panel LED indicators.
- Built-in 10/100 switch – No external device is needed to connect the 10Mbps and 100Mbps traffic. The functionality of two hubs and a switch is built right in.

Model	EN140T
Number & type of ports	16 or 24 × RJ-45
Backbone port	No
Network speed	10/100Mbps
Manageament capability	No
Type of standard	IEEE 802.3
Dimensions	273 × 166 × 43mm
Weight	2kg
Warranty	3 years
Network cards	See pages 652, 653

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Intel Express 140T 16-port 10/100 Auto-sensing Hub	47-09-08	267.37	➧	274.86	272.11
Intel Express 140T 24-port 10/100 Auto-sensing Hub	47-09-15	355.99	➧	365.96	362.30

OTHER ITEMS
FOR INTEL NICs SEE PAGES 652–653

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

DUAL SPEED HUBS – STACKABLE

intel



With a flexible, modular design, the **Intel Express 330T** Stackable Hub lets you put affordable performance right where you need it, when you need it. 16- and 24-port models can be stacked together – up to 5 high – to support up to 120 ports. Each port automatically senses either 10 or 100Mbps Ethernet, so you can individually match network speed to desktop need, putting higher performance only where it's required. Also because each Intel Express 330T Stackable Hub is only 1 Rackmount Unit (RU) in height, you can fit more ports into a smaller space. Two expansion slots provide optional management and distance extension capabilities.

OPTIONAL ACCESSORIES:

- **Management Module** – Manage an entire stack of Intel Express 330T Stackable Hubs locally through your PC or remotely using your favourite web browser. Intel Device View software for Windows and Web included.
- **Ethernet Module** – Extend the diameter of your network another 100m to additional devices or hub stacks.
- **Fibre Module** – Extend the diameter of your network another 2km to other campus networks and buildings.

FEATURES:

- Auto-sensing 10/100 ports.
- Stackable 16- and 24-port models, 5-Unit Stack, 120 ports maximum.
- 1 Rackmount Unit (RU) high.
- Management Module with Intel Device View and Embedded Web Server.
- Expansion modules.
- Auto-ranging power supply.
- Port-to-MAC address mapping.

BENEFITS:

- Each port delivers the highest bandwidth supported by either 10Mbps or 100Mbps connected devices.
- Room to grow, easy to migrate individual desktops.
- Increased port density for tight spaces.
- Easily manage and monitor the entire stack using familiar Windows based or Web-based utilities.
- Extends network diameter and provides full- or half-duplex switched connections.
- Automatically adapts to world-wide AC power sources.
- Helps ensure security.

Model	Express 330T Stacakable Hub
Number & type of ports	16× or 24× RJ-45
Backbone port	No
Network speed	10/100Mbps
Management capability	Optional
Type of standard	IEEE 802.3
Dimensions (W × D × H)	442 × 330 × 44mm
Weight	3.6kg
Warranty	3 years (for full details please see http://support.intel.com/support/network)

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Express 330T Stackable Hub, 16-port	49-18-12	334.72	◗	344.09	340.65
Express 330T Stackable Hub, 24-port	49-31-23	508.10	◗	522.32	517.10
Express 300 series Management Module	49-53-88	336.89	◗	346.32	342.86
Express 300 series Ethernet Module	49-94-99	175.42	◗	180.33	178.53
Express 300 series Fibre Module	49-70-38	315.03	◗	323.85	320.61

OTHER ITEMS
FOR INTEL SWITCHES SEE PAGES 684–686

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ETHERNET/DUAL-SPEED HUBS – STACKABLE



OfficeConnect Hub 8 and Hub 8C
are entry-level hubs that provide eight twisted-pair connections.

- Installation in less than 10 minutes.
- Eight RJ-45, 10Base-T connections.
- Diagnostic LEDs to indicate packet receipt, packet collision, port status.
- Ergonomic design saves space and ensures silent operation.
- Full compatibility with NetWare, Windows 95 and other leading network operating systems.
- MDI/MDIX switch.
- BNC 10Base-2 coaxial port for attaching other units. (Hub/8 TPC only).

OfficeConnect Dual Speed Hub 8 and Hub 16
If you need the power and speed of 100BASE-TX networking – but don't need management capability – our 3Com OfficeConnect Dual Speed hubs are the right choice for your small office. These reliable, plug-and-play hubs also offer a smooth way to migrate to Fast Ethernet performance for maximum growth and flexibility, by connecting both Ethernet and Fast Ethernet PCs or network devices. The OfficeConnect Dual Speed Hub 16, features 16 autosensing 10/100Mbps Ethernet hub ports that detect and match the speed of an attached network device to optimise performance. An internal built-in switch seamlessly connects standard and high-bandwidth users. Designed as Class II repeating hubs, OfficeConnect Dual Speed hubs can be connected to other Fast Ethernet hubs and switches, as high-speed bandwidth needs increase. Best of all, the award-winning OfficeConnect product family – with its plug-and-play design, compact footprint, silent operation, reliability and FCC Class B rating – is ideally suited to the small commercial or home office environment.

FEATURES:

- 10/100 auto-negotiation capabilities on every port.
- Unmanaged plug-and-play.
- Extensive LED indicators, including Alert Speed indication and network utilisation.

Manufacturer's Part No.	3C16700A	3C16701A	3C16750B	3C16751B
No. and type of ports	8×RJ-45			16×RJ-45
Backbone port	No	1×BNC	No	
Network speed	10Mbps		10/100Mbps	
Management capability	No			
Type of standard	IEEE 802.3			
Dimensions (W×D×H)	220×135×36mm		220×185×55mm	
Weight	0.5kg	0.55kg	0.95kg	
Warranty	Limited Lifetime			
Network cards	See pages 654–655			

Networking pre-sales team
08701 663322

DESCRIPTION	3COM PART NO	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
OfficeConnect Ethernet Hub 8 – **Entry-Level**	3C16700A	83-01-39	48.81	50.68	50.17	49.67
OfficeConnect Ethernet Hub 8C – **Stackable**	3C16701A	83-01-46	61.62	63.98	63.34	62.71
OfficeConnect Dual Speed Hub 8 – **Unmanaged**	3C16750B	45-30-87	82.82	86.00	85.14	84.29
OfficeConnect Dual Speed Hub 16	3C16751B	47-17-92	141.05	◆	145.00	143.55

OTHER ITEMS
FOR 3COM ETHERNET CARDS SEE PAGES 654–655
FOR 3COM SWITCHES SEE PAGES 687–690

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ETHERNET HUBS – STACKABLE

3com

OfficeConnect Ethernet Hub 4
The TP4 is a basic 4 × 10Mbps port twisted pair hub positioned as a basic networking solution for small offices, at a cost optimum price.

FEATURES:
- 4 × 10Base-T ports (as TPO, but with 4 ports).
- Unmanaged, plug-and-play installation.
- Simple diagnostic LEDs.
- Unique Alert LED.
- Lifetime limited warranty on hub and power adaptor.

OfficeConnect Ethernet Hub 4C

The TP4 Combo, having the extra functionality of both an AUI port and BNC port is targeted to small office environments with the need to connect to either coax or AUI backbones.

FEATURES:
- 4 × 10Base-T ports.
- One BNC (Coax) Port.
- One AUI port.
- Unmanaged, plug-and-play installation.
- Designed with the needs of the small office in mind.
- Simple diagnostic LEDs.
- Unique Alert LED.
- Lifetime limited warranty on hub and power adaptor.

Networking pre-sales team 08701 663322

3Com premier mail order partner

PLUG PLAY

Protect ME! with APC SEE PAGES 641-645



OfficeConnect Ethernet Hub 16C
A 16 port 10Base-T Hub. The product has 16 shielded Twisted Pair RJ-45 ports, with a crossover switch enabling multiple hubs to be cascaded together. The unmanaged hub has a BNC connector allowing connection to coax network backbones, eliminating the need to use a TP port for cascading hubs.

FEATURES:
- 16 10Base-T ports plus one BNC (coax) port.
- Unmanaged, plug-and-play installation.
- Simple diagnostic LEDs.
- Unique Alert LED.
- Network Utilisation Meter.
- Lifetime limited warranty on hub and power adaptor.

Manufacturer's Part No.	3C16704A	3C16703A	3C16702A
No. & type of ports	4 × RJ-45		16 × RJ-45
Backbone port	No	1 × BNC – 1 × AUI	1 × BNC
Network speed	10Mbps		
Management capability	No		
Type of standard	IEEE 802.3		
Dimensions	220 × 135 × 40mm		220 × 185 × 55mm
Weight	0.5kg		1kg
Warranty	Limited lifetime		
Network cards	See page 654–655		

DESCRIPTION	3Com PART NO	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
OfficeConnect Ethernet Hub 4	3C16704A	87-14-28	29.08	30.20	29.90	29.60
OfficeConnect Ethernet Hub 4C	3C16703A	87-14-11	43.88	45.56	45.10	44.65
OfficeConnect Ethernet Hub 16C	3C16702A	87-14-04	107.06	◗	110.06	108.96

www.action.com THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FAST ETHERNET HUBS – STANDALONE







OfficeConnect Fast Ethernet Hub 4
This unmanaged hub allows even the smallest office or workgroup to benefit from the high speed local area connectivity that Fast Ethernet allows. Having just four 100Base-TX RJ-45 ports, the hub provides a cost-effective way to Fast Ethernet networking.

- Four shielded 100Base-TX ports.
- MDI/MDIX switch to allow connection of either a workstation or another Fast Ethernet hub to the fourth twisted-pair port.

OfficeConnect Fast Ethernet Hub 8
Simple yet powerful, this hub supplies eight unmanaged 100Base-TX RJ-45 ports, allowing up to eight users to connect at high-speed over a Fast Ethernet local area network (LAN).

- Eight shielded 100Base-TX ports.
- Network Utilisation LEDs for at-a-glance monitoring of network load.
- MDI/MDIX switch to allow connection of either a workstation or another Fast Ethernet hub to the eighth twisted-pair port.

OfficeConnect Fast Ethernet Hub 12
An unmanaged hub featuring 12 100Base-TX RJ-45 ports, this product delivers cost-effective Fast Ethernet connectivity to growing businesses and branch offices that need additional ports. The Hub TP1200 provides the highest port density available within the line of OfficeConnect Fast Ethernet solutions.

- 12 shielded 100Base-TX ports.
- Network Utilisation LEDs for at-a-glance monitoring of network load.
- MDI/MDIX switch to allow connection of either a workstation or another Fast Ethernet hub to the twelfth twisted-pair port.

Manufacturer's Part No.	3C16723A	3C16722A	3C16721A
No. & type of ports	4 × RJ-45	8 × RJ-45	12 × RJ-45
Backbone port	No		
Network speed	100Mbps		
Management capability	No		
Type of standard	IEEE 802.3		
Dimensions	220 × 35 × 135mm		220 × 54 × 185mm
Weight	0.5kg		0.9kg
Warranty	Limited lifetime		
Network cards	See page 654–655		

3Com premier mail order partner
Networking pre-sales team 08701 663322

DESCRIPTION	3Com PART NO	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
OfficeConnect Fast Ethernet Hub 4	3C16723A	44-12-43	61.62	63.98	63.34	62.71
OfficeConnect Fast Ethernet Hub 8	3C16722A	44-12-50	96.12	99.81	98.81	97.82
OfficeConnect Fast Ethernet Hub 12	3C16721A	44-12-67	167.32	▶	172.00	170.28

OTHER ITEMS
FOR 3COM SWITCHES SEE PAGES 687–713

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ETHERNET/DUAL-SPEED HUBS



The **3Com SuperStack II Baseline Hubs** provide high-quality connectivity solutions for shared Ethernet networks that don't require comprehensive management.

FEATURES:

- 12- or 24-RJ-45 10Base-T connections.
- Slot for optional transceiver interface module provides a connection to legacy networking devices or fibre.

The **3Com SuperStack II Baseline Dual Speed Hubs** provide high-speed connections to users while maintaining compatibility with legacy shared 10Mbps Ethernet networks.

FEATURES:

- 12 or 24 RJ-45 10Base-T/100Base-TX connections.
- Auto-sensing on each port – automatically senses the speed of the network device.
- 10" size for easy installation in a wiring closet. A rackmounting kit is supplied. The product can also be used free-standing.



SuperStack II Hub 10s are stackable hubs that provide complete media flexibility and manageability.

FEATURES:

- Create single or mixed media Ethernet stacks with 12 port and 24 port RJ-45 twisted pair hubs and 24 port Telco twisted pair hubs.
- User installable management modules provide management for all the hubs in the stack.
- Easy to enable security features..
- Backbone links.
- SNMP Management.

SHARED FEATURES OF BASELINE HUBS:

- MDI/MDIX switchable port allows for simple cascading of hubs without the need for a special crossover cable.
- Diagnostic LEDs indicate port status, network traffic and collisions.

FOR ACCESSORIES SEE PAGE 671

Manufacturer's Part No.	3C16440	3C16441	3C16592A	3C16593A	3C16670A	3C16671A	3C16672A
No. & type of ports	12×RJ-45	24×RJ-45	12×RJ-45	24×RJ-45	12×RJ-45	24×RJ-45	24×Telco
Backbone port	No				1×AUI		
Network speed	10Mbps		10/100Mbps		10Mbps		
Management capability	No				Optional		
Type of standard	IEEE 802.3						
Dimensions	440×44×224mm		440×70×270mm		440×44×230mm		
Weight	2.04kg		4.5kg	4.9kg	2.6kg	2.7kg	
Warranty	Limited lifetime						

3Com premier mail order partner

DESCRIPTION	PART NO	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
SuperStack II Baseline 10Mbps 12 port hub	3C16440	89-22-18	94.65	98.28	97.30	96.32
SuperStack II Baseline 10Mbps 24 port hub	3C16441	89-22-25	148.95	◗	153.12	151.59
SuperStack II Baseline 10/100Mbps 12 port hub	3C16592A	46-18-14	242.33	◗	249.11	246.62
SuperStack II Baseline 10/100Mbps 24 port hub	3C16593A	46-18-21	353.50	◗	363.40	359.77
SuperStack II Hub 10-12 port TP	3C16670A	84-30-92	314.51	◗	323.31	320.08
SuperStack II Hub 10-24 port TP	3C16671A	84-31-02	548.02	◗	553.02	552.02
SuperStack II Hub 10-24 port Telco	3C16672A	84-31-19	609.73	◗	626.80	620.53

OTHER ITEMS

FOR 3COM SWITCHES SEE PAGES 687–690

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ETHERNET/DUAL-SPEED HUBS





Protect ME! with APC SEE PAGES 641-645

Easy-to-use, low-cost stackable hubs, the **SuperStack II PS Hub 40** is available in 12- and 24-port TP versions while the **SuperStack II PS Hub 50** provides 24 TP ports with built-in segment switching and an optional Fast Ethernet downlink.

- **Easy expansion:** Stack up to 10 units.
- **Backbone media choices:** The SuperStack II PS Hub 40 offers two slots for slide-in Ethernet transceiver modules. The SuperStack II PS Hub 50 has one slot that can be used for either Ethernet or Fast Ethernet transceiver modules.
- **At-a-glance monitoring:** Front panel LEDs.
- **RMON management:** All nine groups of Remote monitoring (RMON) are available on all segments simultaneously for extensive diagnostics.
- **Easy installation:** Installation and operation are easy with built-in Widows Quick Configuration.

SuperStack II Dual Speed Hub 500 The 10/100 auto-sensing capability on each port provides the power of shared 100Mbps Fast Ethernet with the flexibility to connect 10Mbps Ethernet devices or users in the same hub.

- **Easy migration to high-speed performance.**
- **Fool-proof, automatic speed and cable quality detection.**
- **Easy installation and operation.** The self-configuring hub ensures reliable, trouble-free installation as soon as the system is turned on.
- **The optional Dual Speed Hub-PS Hub cascade converter kit.** Allows existing SuperStack II PS Hub 40/50 hubs and SuperStack II Dual Speed Hubs 500s to be stacked together and managed as a single entity.
- **Optional management capability.**

3Com premier mail order partner

Manufacturer's Part No.	3C16405	3C16406	3C16450	3C16610	3C16611
No. & type of ports	12×RJ-45	24×RJ-45		12×RJ-45	24×RJ-45
Backbone port	BNC, AUI, Fiber (ST), UTP (RJ-45)		1×RJ-45	Optional	
Network speed	10Mbps			10/100Mbps	
Management capability	Yes			Optional	
Type of standard	IEEE 802.3				
Dimensions	440×168×44mm			440×310×44mm	
Weight	2kg	2.1kg	2.2kg	2.55kg	2.66kg
Warranty	Limited Lifetime				

DESCRIPTION	3COM PART NO.	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
SuperStack II PS Hub 40 12 port TP	3C16405	84-57-46	224.08	➧	230.35	228.05
SuperStack II PS Hub 40 24 port TP	3C16406	84-57-91	395.29	➧	406.36	402.30
SuperStack II PS Hub 50 24 port TP	3C16450	44-22-97	568.79	➧	584.71	578.86
SuperStack II Dual-speed 10/100 Hub 500 12-port	3C16610	44-89-09	411.30	➧	422.81	418.58
SuperStack II Dual-speed 10/100 Hub 500 24-port	3C16611	44-89-16	566.93	➧	582.80	576.97

OTHER ITEMS
FOR NETWORK CABLE GUIDE SEE PAGE 599
FOR A RANGE OF UPS PRODUCTS SEE PAGES 640–649

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

HUB ACCESSORIES

DESCRIPTION	PART NO	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
SUPERSTACK II BASELINE ACCESSORIES						
Fibre Optic transceiver interface module (1 pair ST)	3C1206-5	84-35-66	132.47	▶	136.18	134.82
Coaxial transceiver interface module (1 BNC)	3C1206-6	78-38-15	78.30	81.30	80.49	79.68
TP transceiver interface module (1 RJ-45)	3C12063	84-31-64	48.93	50.81	50.30	49.80
10Base-FB transceiver interface module (1 pair ST)	3C12067	89-13-81	205.82	▶	211.58	209.46
SUPERSTACK II HUB 10 ACCESSORIES						
SuperStack II Management Module	3C16630A	84-31-26	275.33	▶	283.04	280.21
SuperStack II AUI Transceiver Interface Module (AUI)	3C1206-0	84-31-57	33.26	34.54	34.19	33.85
SuperStack II TP Transceiver Interface Module (RJ-45)	3C12063	84-31-64	48.93	50.81	50.30	49.80
SuperStack II Expansion Cable	3C625	84-31-33	23.01	23.89	23.65	23.41
SuperStack II PS HUB 40 ACCESSORIES						
SuperStack II AUI transceiver inteface module	3C1206-0	84-31-57	33.26	34.54	34.19	33.85
SuperStack II TP (RJ-45) transceiver interface module	3C12063	84-31-64	48.93	50.81	50.30	49.80
SuperStack II BNC transceiver interface module	3C1206-6	78-38-15	78.30	81.30	80.49	79.68
Fibre transceiver interface module (one pair ST)	3C1206-5	84-35-66	132.47	▶	136.18	134.82
SUPERSTACK II PS HUB 50 ACCESSORIES						
SuperStack II PS Hub 50 100Base-FX Module	3C16681	44-23-07	191.88	▶	197.25	195.28
SuperStack II PS Hub 50 100Base-TX Module	3C16680	44-23-14	137.47	▶	141.32	139.91
SuperStack II PS Hub Cascade cable 1m	3C16421	84-58-01	23.09	23.98	23.74	23.50
SUPERSTACK II DUAL SPEED 10/100 HUB 500 ACCESSORIES						
SuperStack II 10Mbps 10Base-FL(ST) Backbone Transceiver Interface Module	3C1206-5	84-35-66	132.47	▶	136.18	134.82
SuperStack II 10Mbps 10Base-2(BNC) Backbone Transceiver Interface Module	3C1206-6	78-38-15	78.30	81.30	80.49	79.68
SuperStack II 10Mbps 10Base-T(RJ-45) Backbone Transceiver Interface Module	3C1206-3	84-31-64	48.93	50.81	50.30	49.80
SuperStack II Dual-speed 10/100 Hub 500 Management Module	3C16685	44-98-67	422.11	▶	433.93	429.59
SuperStack II Dual-speed Hub Cascade Cable	3C16695	41-81-35	19.90	22.50	22.40	22.30
SuperStack II Dual-speed Hub/PS Hub Cascade Converter Kit (0.3m cascade cable included)	3C16692	44-98-81	128.59	▶	132.19	130.87
SuperStack Dual-speed Hub 500/Hub 10 Cascade Converter Kit	3C16686	47-02-45	95.53	99.95	98.95	97.96

OTHER ITEMS FOR 3COM HUBS SEE PAGES 666–671

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ETHERNET HUBS – STANDALONE

NETGEAR



The NETGEAR EN100 series 10Base-T hubs deliver standards-based, plug-and-play networking solutions to small businesses, home offices and low-density workgroups.

PC MAGAZINE EDITORS' CHOICE

1 WEEK RECOMMENDED

FEATURES:

- Slim, sturdy metal case allows for installation anywhere.
- Built-in port LEDs for unambiguous real-time status.
- AUI/BNC backbone support on selected models.
- Push button RJ-45 Uplink port for network expansion.
- Lifetime warranty (Hub only).

Manufacturer's Part No.	EN104TP	EN104	EN106TP	EN108TP	EN108	EN116
No. & type of ports	4×RJ-45		6×RJ-45	8×RJ-45		16×RJ-45
Backbone port	No	1×BNC	No		1×BNC – 1×AUI	
Network speed	10Mbps					
Management capability	No					
Type of standard	IEEE 802.3					
Dimensions	94×101×28mm		126×101×28mm	158×101×28mm		286×101×28mm
Weight	0.5kg			0.75kg		
Warranty	Lifetime					
Network cards	See page 657					

DESCRIPTION	PART NO	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NETGEAR EN104TP 10Base-T Hub	EN104TP	89-18-93	19.01	19.74	19.54	19.35
NETGEAR EN104 10Base-T Hub	EN104	83-99-03	24.32	25.25	25.00	24.75
NETGEAR EN106TP 10Base-T Hub	EN106TP	45-11-54	23.74	24.65	24.40	24.16
NETGEAR EN108TP 10Base-T Hub	EN108TP	89-19-03	28.30	29.39	29.10	28.81
NETGEAR EN108 10Base-T Hub	EN108	83-99-10	33.61	34.90	34.55	34.21
NETGEAR EN116 10Base-T Hub	EN116	83-99-27	62.36	64.75	64.10	63.46

OTHER ITEMS
FOR NETWORK CABLE GUIDE SEE PAGE 599
FOR NETGEAR SWITCHES SEE PAGES 695–697

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ETHERNET HUBS – STANDALONE

NETGEAR

Networking pre-sales team 08701 663322



The **NETGEAR EN308TC** is a simple 10Base-T hub, ideal for use in a desktop stack with other Netgear 3 Series hubs. Front panel LED's provide easy reading, whilst the ports are at the back to allow the cables to neatly hang down behind a desktop.

FEATURES:
- MDI port for network expansion.
- BNC backbone support.
- Internal power supply.
- LEDs adjacent to ports provide easy to read status.
- Sturdy metal enclosure.



NETGEAR EN516 and **EN524** hubs deliver standards based plug and play networking solutions in a 19" cabinet rackmountable format. Rackmount brackets and screws are included.

FEATURES:
- 19" Rackmountable.
- The internal 100-240V AC power supply eliminates bulky external power transformers.
- BNC and AUI backbone support.
- Uplink port for network expansion.
- Plug-and-play with no software configure.

WEEK RECOMMENDED

PLUG PLAY

PC MAGAZINE EDITORS' CHOICE

Manufacturer's Part No.	EN 308TC	EN 516	EN 524
No. & type of ports	8 × RJ-45	16 × RJ-45	24 × RJ-45
Backbone port	BNC Port	AUI & BNC	
Network speed	10Mbps		
Management capability	No		
Type of standard	IEEE 802.3		
Dimensions	220 × 160 × 36mm	330 × 202 × 43mm	
Weight	0.7kg	2.2kg	2.3kg
Warranty	5 years hub (1 year PSU)		

DESCRIPTION	PART NO	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NETGEAR EN308TC 10Base-T Hub + Internal PSU	EN 308TCUK	49-32-47	52.63	54.65	54.10	53.56
NETGEAR EN516 10Base-T Hub + Internal PSU	EN 516UK	44-68-22	71.65	74.40	73.66	72.92
NETGEAR EN524 10Base-T Hub + Internal PSU	EN 524	44-88-37	111.69	▶	114.82	113.67

OTHER ITEMS
FOR NETGEAR SWITCHES SEE PAGE 695
FOR A RANGE OF UPS PRODUCTS SEE PAGES 640–649

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Order FREE on BT 0800 333 333

DUAL-SPEED HUBS – STANDALONE/STACKABLE

NETGEAR



44-88-06



44-88-20

1 WEEK RECOMMENDED

Networking pre-sales team 08701 663322

NETGEAR Dual-speed Hubs

These new 10/100 dual-speed hubs from NETGEAR transmit information at 10Mbps or 100Mbps according to the speed of the network devices attached.

FEATURES:

- 4, 6, 8, 9, 16 or 24 × 10/100Mbps auto-sensing RJ-45 ports.
- Stackable up to 8 units by using the cascade cables supplied, thus allowing a maximum of 128 ports in the stack (excluding DS-104, DS-106, DS-108).
- Vista RJ-45 jacks with integrated LEDs for easy installation and trouble shooting.
- 1 uplink port for daisy chaining to another similar device (excluding DS-104, DS-106, DS-108).
- Status LEDs: power, collision, 2 utilisation bar graphs (1 for 10Mbps and 1 for 100Mbps) 2 Link/Rx LEDs (10 and 100Mbps respectively) per port integrated in the RJ-45 jacks.
- DS508, DS516 and DS524 are 19" cabinet rackmountable and stackable. Rackmount brackets and stacking cable included.
- Compact metal case desktop design with external power supply (DS104, DS106, DS108).

Manufacturer's Part No.	DS-104	DS-106	DS-108	DS-508	DS-309	DS-516	DS-524
No. & type of ports	4 × RJ-45	6 × RJ-45	8 × RJ-45		9 × RJ-45	16 × RJ-45	24 × RJ-45
Backbone port	No			Yes			
Network speed	10/100Mbps						
Management capability	No						
Type of standard	IEEE 802.3i/u			IEEE 802.3U			
Dimensions	158 × 103 × 27mm		235 × 103 × 27	330 × 203 × 43	253 × 180 × 35	330 × 203 × 43mm	
Weight	0.75kg		2.2kg		1.3kg	2.4kg	
Warranty	5 years for unit, 1 year PSU						

DESCRIPTION	PART NO	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NETGEAR 4 × 10/100-port – Desktop	DS-104	49-07-20	48.21	50.06	49.56	49.06
NETGEAR 6 × 10/100-port – Desktop	DS-106	49-31-82	65.01	67.51	66.83	66.17
NETGEAR 8 × 10/100-port – Desktop	DS-108	44-88-06	69.89	72.57	71.84	71.13
NETGEAR 16 × 10/100-port – Desktop	DS-116	49-54-90	155.34	◗	159.69	158.09
NETGEAR 9 × 10/100 port – Desktop	DS-309	49-76-75	129.83	◗	133.46	132.13
NETGEAR 8 × 10/100-port – Rackmount	DS-508	44-88-13	136.27	◗	140.08	138.68
NETGEAR 16 × 10/100-port – Rackmount	DS-516	44-88-20	194.80	◗	200.25	198.25
NETGEAR 24 × 10/100-port – Rackmount	DS-524	47-02-69	292.19	◗	300.37	297.37

OTHER ITEMS

FOR NETGEAR SWITCHES SEE PAGES 695–698
FOR A RANGE OF UPS PRODUCTS SEE PAGES 640–649

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FAST ETHERNET HUBS – STACKABLE

NETGEAR

FE100 Fast Ethernet Hubs

The FE series 100Base-TX Fast Ethernet Hubs provide a cost effective way to relieve bandwidth bottlenecks and help future proof your network. Applications including multimedia, groupware, imaging and client/server databases are already pushing the performance limits of traditional 10Mbps Ethernet, even in small networks. With the NETGEAR FE series hubs users can make that next step easily and with confidence.



FEATURES:

- **Expandable from 4 to 64 users.** Start with as few as 4 ports and grow the network as needed by simply stacking additional units using expansion cables provided.
- **Plug and Play with no software to configure.** Easy set-up saves time and minimises potential for configuration error. Compact design enables desktop or rackmounting installation.
- **Built-in LED's clearly indicate port status.** Additional LEDs provide network status for the hub.
- **Uplink switch simplifies network expansion.** In the Uplink mode, signals are crossed so that the FE series can be connected to a 100Base-TX switch or router using straight through cables.

Networking pre-sales team 08701 663322



Manufacturer's Part No.	FE104	FE108	FE116
No. & type of ports	4 × RJ-45	8 × RJ-45	16 × RJ-45
Backbone port	No		
Network speed	100Mbps		
Management capability	No		
Type of standard	IEEE 802.3u		
Dimensions	158 × 103 × 27mm	235 × 103 × 27mm	286 × 103 × 27mm
Weight	0.49kg	0.73kg	
Warranty	5 years for unit, 1 year PSU		
Print servers	See page 731		

DESCRIPTION	PART NO	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Netgear Fast Ethernet 4-port – Compact	FE104 UK	87-08-14	42.89	44.54	44.09	43.65
Netgear Fast Ethernet 8-port – Compact	FE108 UK	87-08-21	76.52	79.46	78.67	77.88
Netgear Fast Ethernet 16-port – Compact	FE116	47-02-52	135.82	▶	139.62	138.22

OTHER ITEMS FOR ETHERNET NETWORK CABLES SEE PAGES 599–616

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DUAL-SPEED HUBS STANDALONE/STACKABLE

D-Link



The **D-Link DFE-905 10/100Mbps Network Kit In A Box** provides simple plug-and-play installation and provides easy installation with Windows 95 and Windows 98 and supports a wide variety of Network Operating Systems. The Plug and Play feature enables users to install and configure the network in a single step.

FEATURES:
- Network Starter Kit for SOHO.
- 10 or 100Mbps Dual-Speed.
- Technology Leading.
- Includes two DFE-530TX Dual-Speed Adaptors.
- A four port DFE-904 Dual-Speed Hub.
- Quick Starter Guide for Windows 95/98.

D-Link's DFE-908Dx and DFE-916Dx series dual-speed stackable hubs provide an easy and cost-effective transition to Fast Ethernet. With Ethernet/Fast Ethernet support at the port level, users can deploy 100Mbps when and where needed and still run 10Mbps on some desktops on the network.

FEATURES:
- 8 and 16 NWay 10/100Mbps dual-speed ports per hub.
- The DFE-908Dx and 916Dx auto-negotiate between 10Mbps and 100Mbps.
- Up to 5 units (40 ports) per stack.
- 1 MDI-II uplink port per hub for easy expansion.
- Allows mixed connection of Ethernet/Fast Ethernet stations from the same hub.
- Plug-and-play connection.
- Internal universal power-supply.

At least one 908Dx or 916Dx will be needed per stack to communicate between 10Mbps and 100Mbps

Manufacturer's Part No.	DFE-905	DFE-908Dx	DFE-916Dx
No. & type of ports	4 × RJ-45	8 × RJ-45	16 × RJ-45
Backbone port	No	1 × RJ-45	
Network speed	10/100Mbps		
Management capability	No		
Type of standard	IEEE 802.3		
Dimensions	100 × 75 × 29mm	233 × 141 × 44mm	324 × 231 × 45mm
Weight	0.25kg	1.2kg	2.5kg
Warranty	5 years on unit, 1 year on PSU		
Contents	Hub, power supply, manual, rackmount kit		

homePCnetwork EDITOR'S CHOICE

PCTODAY ★★★★★

Networking pre-sales team 08701 663322

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DFE 905 10/100Mbps Network kit (Inc. 2xDFE-530TX and 1xDFE-904)	48-94-78	76.69	80.23	79.43	78.63
D-Link DFE-905DX 5-port 10/100Mbps Dual Speed Hub	45-49-47	76.33	79.26	78.47	77.68
DFE 908Dx 8-port 10/100Mbps Dual Speed Mini-Hub+ 10/100 switch	49-95-40	109.95	◆	113.03	111.90
DFE 916Dx 16-port 10/100Mbps Dual Speed Mini Hub + 10/100 switch	49-17-84	190.59	◆	195.93	193.97

OTHER ITEMS
FOR D-LINK PCMCIA ETHERNET ADAPTORS SEE PAGE 745

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ETHERNET HUBS – STANDALONE

D-Link

D-Link offers an extensive range of hubs to suit all users requirements and budgets. From the award winning **DE-809TP Mini hub** to the top of the range, D-Link 10Base-T hubs provide workgroup connection for 5, 9, 16 and 24-users.



FEATURES: DE-805TP

- Portable ultra-small hub measuring 100 × 75 × 20mm and weighs a mere 115g.
- Five twisted pair hubs.
- Pocket-sized Walkman™ weight.
- No AC power adaptor required.
- Per port diagnostic LEDs.
- Data collision detection and report.

FEATURES: DE-809TP/TC

- Palm sized, light-weight 9-port 10Base-T hub.
- Wall mountable.
- Extensive diagnostic LEDs.
- Award-winning design.
- Ideal for workgroups.

DE-906

- Ethernet 5-port hub
- 2 × PCI Network Adaptors (DE-528CT)
- 2 × 20ft Cat 5 cables
- 120V Power Supply

FEATURES: DE-816TP/DE-824TP

- 16 or 24-port 10Base-T hub.
- 16 or 24 10Base-T ports plus 1 BNC and 1 AUI port.
- Built-in transceiver for each twisted-pair port.
- LED indicator on each twisted-pair port.
- Auto-partitioning for each port.
- Data collision and jabber handling function.

DE-905

- Ethernet 5-port mini hub
- 2 × ISA NICs (DE-220PT)
- 2 × 20UTP CAT5 cables
- AC Power Adaptor

Networking pre-sales team
0800 732 832

Manufacturer's Part No.	DE-805TP	DE-809TP	DE-809TC	DE-816TP	DE-824TP
No. & type of ports	5 × RJ-45	9 × RJ-45	8 × RJ-45	16 × RJ-45	24 × RJ-45
Backbone port	No		BNC	1 × AUI, 1 × BNC	
Network speed	10Mbps				
Management capability	No				
Type of standard	IEEE 802.3				
Dimensions	100 × 75 × 20mm	150 × 75 × 20mm		483 × 125 × 44mm	483 × 121 × 44mm
Weight	1.15kg			2kg	
Warranty	5 years unit, 1 year PSU				

DESCRIPTION	NO OF PORTS	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DE-905 Hubby Ethernet Starter Kit	5	87-18-82	36.29	37.68	37.30	36.93
DE-906 Ethernet Starter Kit	5	48-53-44	43.53	45.20	44.75	44.30
DE-805TP Portable Hub	5	78-86-83	20.31	21.09	20.88	20.67
DE-809TP Mini Hub	9	72-60-92	39.92	41.45	41.04	40.63
DE-809TC Mini Hub 8+1 × BNC	9	81-95-76	31.20	32.40	32.08	31.76
DE-816TP Unmanaged Hub	16	77-16-90	71.84	74.60	73.85	73.12
DE-824TP Unmanaged Hub	24	81-31-87	108.48	➧	111.52	110.40

OTHER ITEMS

FOR D-LINK PCMCIA ETHERNET ADAPTORS SEE PAGE 745

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ETHERNET HUBS – STANDALONE

Allied Telesyn International



The **AT-MR 420-TR** and **820-TR** micro hubs are twisted pair hubs intended to connect up to 8 10Base-T network segments through one unit.

- IEEE 802.3 compliant with AUI/BNC connection.
- RJ-45 uplink for network cascading.
- Backbone network enable/disable switch.
- Rugged steel chassis.
- Internal power supply.

The **AT-MR 415-T** and **AT-MR 815-T micro hubs** are very small in size yet they provide the complete functionality of large hubs including packet regeneration and network partitioning.

- Connect as many as eight IEEE 802.3 10Base-T network segments through one unit.
- External power supply for compact design.
- RJ-45 uplink for network cascading.
- Simplified wall and desktop mounting.
- Rugged steel chassis.

The **AT-3000-SL series** offer 12 to 24 10Base-T ports. They all include one AUI and one BNC port.

- UTP uplink for cascading.
- Standalone or rackmountable.
- Automatic partitioning of network segments.
- Status and diagnostic LEDs.

The low cost 10Mbps hubs, **AT-RH 505** and **AT-RH 509,** set new standards for price and features.

- Ultra compact design.
- 4 and 8 UTP ports plus BNC backbone port.
- Full 802.3 repeater specification.
- Lifetime warranty.

Model	MR415-T	MR815-T	MR420-TR	MR820-TR	RH505-BE	RH509-BE	3012-SL	3024-SL	3012-SL
No of ports (RJ-45)	4	8	4	8	4	8	12	16	24
Backbone port	NO		BNC/AUI		BNC		BNC/AUI		
Network speed	10Base-T								
Management capability	No								
Type of standard	IEEE 802.3								
Dimensions (W×D×H)	112×98×26mm	175×98×26mm	333×112×38mm		99×54×21mm	158×54×21mm	432×252×46mm		
Weight	0.28kg	0.42kg	1.25kg		0.18kg	0.27kg	2.2kg		
Warranty	3 year return to base								
Network cards	See page 705								

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
AT-MR415T 4-port hub, ext PSU	84-17-40	23.65	24.56	24.31	24.07
AT-MR815T 8-port hub, ext PSU	84-17-57	28.86	29.97	29.67	29.37
AT-RH505BE 4-port hub + 1×BNC, ext PSU	46-04-44	28.38	29.47	29.18	28.88
AT-RH509BE 8-port hub + 1×BNC, ext PSU	46-04-51	35.49	36.85	36.48	36.12
AT-MR420-TR 4-port hub + 1×BNC/AUI, int PSU	84-17-64	57.37	59.57	58.97	58.38
AT-MR820-TR 8-port hub + 1×BNC/AUI, int PSU	83-50-48	59.78	62.07	61.45	60.83
AT-3012-SL 12-port hub + 1×BNC/1×AUI, int PSU	81-37-23	70.96	73.68	72.94	72.21
AT-3016-SL 16-port hub + 1×BNC/1×AUI, int PSU	81-37-30	78.84	81.87	81.05	80.24
AT-3024-SL 24-port hub + 1×BNC/1×AUI, int PSU	84-17-19	116.71	◗	119.98	118.78

OTHER ITEMS FOR CONNECTOR GUIDE SEE PAGE 650

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ETHERNET/DUAL SPEED HUBS

Allied Telesyn



Protect ME! with APC

SEE PAGES 641-645

Allied Telesyn offer a range of dual speed hubs offering full auto-sensing and plug and play simplicity from the world leader in Ethernet hubs.
The **AT-FH708/716 Range** offers stackability (up to 5 hubs), integrated switching for true 10/100 connectivity, auto-sensing and all hubs complete with rackmounting kits and stack cables. Allied Telesyn's CentreCOM FH700 family has been designed specifically to serve the growing needs of small and medium-sized networks with the typical mix of high-bandwidth applications and legacy LAN devices. The FH700 family of stackable dual-speed hubs provides the flexibility to combine the power of 100Mbps Fast Ethernet with seamless integration of older network equipment, operating at 10Mbps speed. This capability offers a versatile strategy for network managers, making NIC and cabling upgrades simpler and less costly, yet fully protecting earlier network equipment investments.
All FH700 models feature an additional MDI/MDIX uplink port, to connect to an external 10/100Mbps switch without the need for a special crossover cable. A stacking cable as well as rackmount kit is included with all switching hubs for installation into a standard 19-inch rack.
Network diagnostic LEDs are provided on the front of the FH700 Series hubs to simplify installation, network troubleshooting and fault isolation. The LEDs give status in three areas: system wide status, segment status and per-port status.

FOR NETWORK CARDS SEE PAGE 681

Model	FH705BE	FH708BE	FH708SW	FH712SW	FH716SW	FH716	FH724SW
Network ports	5x RJ-45	8x RJ-45		12x RJ-45	16x RJ-45		24x RJ-45
Backbone ports	MDI/MDIX						
IEEE standard	802.3/802.3u						
Network speed	10/100Mbps						
Dimensions (W×D×H)	131×123×30mm	169×153×44mm	330×204×44mm			297×198×44mm	440×370×66mm
Weight	0.5kg	1.25kg	2.10kg	2.10kg	2.10kg	1.68kg	5.00kg
Warranty	3 year return to base						

Networking pre-sales team 08701 663322

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
AT-FH705BE 5-port Dual Speed Hub with Integrated Switch, EXT PSU	49-70-70	68.01	70.62	69.91	69.21
AT-FH708BE 8-port Dual Speed Hub with Integrated Switch, EXT PSU	49-18-22	103.53	◗	106.43	105.37
AT-FH708SW 8-port Dual Speed Hub with Integrated Switch	49-18-39	123.44	◗	126.90	125.63
AT-FH712SW 12-port Dual Speed Hub with Integrated Switch	49-23-07	167.25	◗	171.93	170.21
AT-FH716SW 16-port Dual Speed Hub with Integral Switch	49-18-53	199.12	◗	204.69	202.64
AT-FH716 16-port Dual Speed Hub	49-18-46	202.52	◗	208.19	206.11
AT-FH724SW 24-port Dual Speed Hub with Integral	49-49-85	278.76	◗	286.56	283.69

OTHER ITEMS
FOR NETWORK CABLE GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ETHERNET HUBS – STANDALONE/STACKABLE



Protect ME!
with APC
SEE PAGES 641-645



HP ProCurve 10Base-T Hub 8 is a compact, unmanaged hub that provides HP reliability and performance at an aggressive price. Ideal as a simple, low-cost way to create a new 10Base-T network or to expand an existing one. Meets Class B emissions standards for use in home and residential environments.

FEATURES:

- Easy expansion with MDI cascade port.
- Installs on desktop or in standard rack with optional four-way mounting kit.
- Automatic polarity correction and auto-partitioning on all ports helps find and fix common network problems.

These **HP 10Base-T 12- and 24-port** value line hubs, the latest addition to HP's 10Base-T line, are a simple, low-cost way to build a new network or expand an existing one.

FEATURES:

- Diagnostic LEDs for at-a-glance hub status checks and troubleshooting.
- The managed hubs (HP 10Base-T hub 12M and Hub 24M) can proactively find common network problems - including chattering NICs, bad cables, and incorrect network topologies - and fix them if possible, while keeping you informed.
- Transceiver slot accepts plug-in modules for greater media flexibility.
- Easy, plug-and-play installation with all mounting hardware included.
- Easy expansion with MDI cascading.

Manufacturer's Part No.	J3300A	J3302A	J3301A	J3303A	J4090A
No. & type of ports	12×RJ-45	24×RJ-45	12×RJ-45	24×RJ-45	8×RJ-45
Backbone port	No				
Network speed	10Mbps				
Management capability	No		Yes		No
Type of standad	IEEE 802.3				
Dimensions	444×197×44mm				199×121×40mm
Weight	2.4kg				0.7kg
Warranty	Limited Lifetime				

Networking pre-sales team 08701 663322

DESCRIPTION	HP PART NO	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
ProCurve 10Base-T Hub 8	J4090A	46-50-23	32.41	33.65	33.31	32.98
ProCurve 10Base-T Hub 12 – Unmanaged	J3300A	44-95-68	74.81	77.68	76.90	76.13
ProCurve 10Base-T Hub 24 – Unmanaged	J3302A	44-95-75	116.26	◗	119.51	118.31
ProCurve 10Base-T Hub 12 M – Managed	J3301A	44-95-82	185.18	◗	190.36	188.46
ProCurve 10Base-T Hub 24 M – Managed	J3303A	44-95-99	302.86	◗	311.34	308.23

OTHER ITEMS FOR NETWORK CABLES SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FAST ETHERNET HUBS – STANDALONE/STACKABLE



HP ProCurve Auto-sensing 10/100 Hubs are dual-speed Ethernet hubs offering an easy, low-cost way to migrate from 10Mbps to 100Mbps networking. Ideal for providing faster performance for users in workgroups with high bandwidth requirments, or for connecting workgroups with 10Mbps and 100Mbps users.

FEATURES:

- 10/100Mbps auto-sensing on every port – no configuration required.
- Easy expansion with MDI cascade port.
- Automatic polarity correction and auto-partitioning on all ports helps find and fix common network problems.
- Built-in bridge connects 10Mbps and 100Mbps devices automatically, with nothing else to buy.

Manuf. part no.	J3294A	J3295A	J3288A	J3289A
No & type of ports	12 × RJ-45	24 × RJ-45	12x	24x
Backbone port	No			
Network speed	10/100Mbps			
Management capability	No		Yes	
Type of standard	IEEE 802.3, IEEE 802.3u			
Dimensions	425 × 238 × 44mm			
Weight	2.2kg			
Warranty	Lifetime off site			
Print servers	See pages 708–711			

DESCRIPTION	PART NO.	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
ProCurve 10/100 Hub 12 – Unmanaged	J3294A	46-50-61	208.16	▶	215.60	213.44	
ProCurve 10/100 Hub 24 – Unmanaged	J3295A	46-50-78	319.23	▶	328.17	324.89	✂
ProCurve 10/100 Hub 12 M – Managed	J3288A	49-31-79	373.68	▶	384.14	380.30	✂
ProCurve 10/100 Hub 24 M – Managed	J3289A	49-54-43	540.24	▶	555.36	549.81	✂

OTHER ITEMS FOR HP SWITCHES SEE PAGE 691

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DUAL SPEED HUBS – STACKABLE — CISCO SYSTEMS



The **Cisco FastHub 400** 10/100 series of high-performance Fast Ethernet hubs deliver flexibility and low-cost managed connectivity to the desktop. This series includes 12 and 24-port hubs in managed and unmanaged versions. The managed models, FastHub 412M and 424M, support a wide range of management protocols and Cisco IOS technologies, including SNMP, four groups of Remote Monitoring (RMON), Cisco Discovery Protocol (CDP) and Cisco Command-line interface (CLI).
Users can be added by stacking any four FastHub 400 10/100 products together using the integrated stacking connectors and a stacking cable (Cat No. 49-49-51). Up to 96 users can be aggregated into one single, manageable logical repeater of 10Base-T or 100Base-TX ports. All four models are ideal for delivering low-cost, high performance.

FEATURES:
- High performance desktop connectivity.
- Auto-sensing 10/100Mbps ports.
- Powerful web-based management interface.
- Comprehensive SNMP management.
- Limited lifetime warranty.

Protect ME! with APC
SEE PAGES 641-645

CISCO SYSTEMS RESELLER

Networking pre-sales team 08701 663322

Model	FastHub 412	FastHub 424	FastHub 412M	FastHub 424M
No. & type of ports	12 × RJ-45	24 × RJ-45	12 × RJ-45	24 × RJ-45
Network speed	10/100Mbps			
Backbone port	No			
Management capability	Optional		Yes	
Dimensions (W × D × H)	445 × 210 × 44mm			
Weight	3.2kg			
Warranty	Limited Lifetime			

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
FastHub WS-C412 12-port 10/100 manageable, stackable Hub	49-53-50	449.49	◗	462.07	457.45
FastHub WS-C424 24-port 10/100 manageable, stackable Hub	49-17-21	685.61	◗	704.80	697.75
FastHub WS-C412M 12-port 10/100 managed, stackable Hub	49-94-80	748.91	◗	769.88	762.18
FastHub WS-C424M 24-port 10/100 managed, stackable Hub	49-70-25	1010.89	◗	◗	1028.80

OTHER ITEMS
FOR CISCO SWITCHES SEE PAGES 692, 693

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

GUIDE TO SWITCHES

What is a switch?

A switch is a network hardware device, it will receive network information through a single connection, store it temporarily then send it out to another specific destination on your network based on the network address (an ID given to each user PC on the network) included on the information package. Switches will allow you to break down your network into smaller sections which will remain in contact from inside the switch, this would effectively give you two separate networks in one. If it is possible to place user PC's which are in regular contact together in the same sections then this would reduce the information traffic by half on each section of network. Unlike hubs, which share the communication channel on the network for all your connections, a switch provides a dedicated communication channel on each connection at full cable speed. Switches are most commonly found on larger networks providing dedicated communication channels to multiple hubs or power user PC's.

10Base-T Switches
3Com 688, 689
10/100Base-TX Switches
Allied Telesyn 694
3Com 687–690
Cisco 692, 693
Intel 684–686
D-Link 696
Netgear 695
HP 691
Gigabit Switches
3Com 689, 690
Cisco 693
Netgear 698
Token Ring Switches
Madge/Olicom 697



What does it connect to & where does it fit into my network?

A switch is usually found situated between your server and your network hubs or power user PC's, pictured below you will see how it would fit into your network.

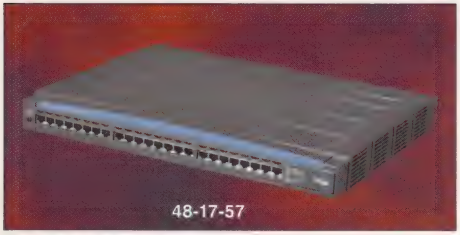


OTHER ITEMS
FOR A RANGE OF UPS PRODUCTS SEE PAGES 640–649

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DUAL SPEED SWITCHES

intel



The **Intel Express 410T Standalone** Switch lets you affordably migrate workgroups from shared to switched networks, delivering Fast Ethernet performance to the desktop. 16- and 24-port models with 10/100 auto-negotiating ports match speed, duplex, and flow control of all connected devices, so you can give users dedicated performance, whether they're at 10 or 100Mbps.

FEATURES:

- 10/100Mbps auto-negotiating ports in 16- and 24-port models.
- Flexible set-up with easy manual or auto-configuration.
- 1 Rackmount Unit (RU) high.





Affordably migrate workgroups from shared to switched Fast Ethernet networks for increased workgroup performance and productivity. The **Intel Express 460T Standalone Switch** is the managed, high-performance solution, delivering affordable Fast Ethernet speed down to the desktop – every desktop. 10/100 auto-negotiating ports match speed, duplex, and flow control with each connected device for quick, easy set-up. Built-in management, 802.1p prioritization, 802.1Q VLANs, link aggregation, IGMP, and optional expansion modules give you affordable power in a standalone switch.

FEATURES:

- 10/100 auto-negotiating ports
- Built-in management, 802.1p prioritization, 802.1Q VLANs and link aggregation.
- Optional 100Base-FX fibre and 1000Base-SX Gigabit and 100Base-FX fibre expansion modules.
- Easy to set up and configure.

Model	Express 410T	Express 460T
Number of ports	16 or 24	
Type of ports	10/100Base-TX (RJ-45)	10/100Mbps (RJ-45)
Management capabilities	Groups 1–3, 9	SNMP
Mac address supported	12,000	
Supported standards	IEEE 802.3, 802.3u	IEEE 802.1p, 802.1Q, 802.3x
Dimension (W × D × H)	440 × 330 × 44mm	442 × 330 × 44mm
Weight	3.6kg	
Warranty	Three year	For details see – http://support.intel.com
Network Cards	See pages 652, 653	

Networking pre-sales team 08701 663322

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Intel Express 410T – 16-port Switch Standalone	48-17-57	378.29	◗	388.88	384.99
Intel Express 410T – 24-port Switch Standalone	48-30-86	505.04	◗	519.18	513.99
Intel Express 460T Standalone Switch – 16 port ES460TX16	49-71-03	579.42	◗	595.64	589.68
Intel Express 460T Standalone Switch – 24 port ES460TX24	49-23-34	713.31	◗	733.28	725.95
Intel Express 1000Base-LX 460T Uplink Module	48-17-69	823.89	◗	846.95	838.48

OTHER ITEMS FOR A RANGE OF UPS PRODUCTS SEE PAGES 640–649

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DUAL SPEED SWITCHES

intel



The **Intel Express 510T/520T Switches** are ideal for extending dedicated Fast Ethernet performance throughout the workgroup. It offers a high-performance solution that is designed to expand easily as your network grows. With 10/100Mbps auto-negotiation on each port.

FEATURES:

- 24 port 10/100Mbps auto-sensing for true plug & play (12 port – 520T).
- Advanced network monitoring.
- Will scale to seven units high.
- 4 port 10/100TX module lets you expand to as many as 32 ports on a single switch.
- 2 port 100FX module supports fibre connections.
- Three year hardware warranty.

Model	Express 510T	Intel Express 520T
Number of ports	24	12
Type of ports	10/100Base-TX (RJ-45)	
Built-in RMON/SNMP management capabilities	Groups 1–3, 9	
Mac address supported	8164	
Supported standards	IEEE 802.3, 802.3u	
LANDesk Network Manager support	Yes	
Dimension (W × D × H)	440 × 330 × 80mm	
Weight	6.1kg	
Warranty	Three year	
Network Cards	See page 652. 653	

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Intel Express 510T – 24-port Switch Stackable	44-34-54	1126.23	➧	➧	1146.18
Intel Express 520T – 12-port Switch Stackable	47-09-39	821.91	➧	844.92	836.47
4 port 10/100TX Module for 500 Series Switches	44-34-61	418.79	➧	430.51	426.20
1000SX Gigabyte Module for 500 Series Switches	46-06-40	499.60	➧	513.59	508.45
Matrix Module for 500 Series Switches	46-06-57	512.02	➧	526.35	521.09
2 port 100FX Module for 500 Series Switches	44-34-78	426.31	➧	438.24	433.86
Stack Interface Module for 500 Series Switches	44-34-85	104.50	➧	107.43	106.36

OTHER ITEMS FOR A RANGE OF UPS PRODUCTS SEE PAGES 640–649

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FAST ETHERNET SWITCHES

intel





The 8-port, **Intel Express 550 Routing Switches** bring easy and powerful scalability to the campus backbone. They support the same features and accept the same expansion modules as the 510T switches.

Fibre or 10/100Mbps connection
The Intel Express 550T Switch supports eight 10/100Mpbs TX auto-negotiating connections. The Intel Express 550F Switch supports eight 100FX ports. Both models can stack up to seven units high, and you can manage them as if they were a single device using the intuitive Web and Windows-based interfaces.

Networking pre-sales team
08701 663322

The **Intel NetStructure 6000 switch** packages high performance, multi-layer Gigabit switching in a RU6 high chassis for use in high traffic aggregating areas. Fault tolerance, redundancy and resiliency provide the reliability needed to support mission-critical applications. With a forwarding rate of over 41M pps, the 6000 switch provides high performance Layer 2 and Layer 3 switching.

KEY FEATURES:
- Over 41M pps Layer 3 forwarding rate for fast data throughput.
- Up to 32 100Base-SX Gigabit Ethernet ports for high-density Gigabit Ethernet switching.
- Layer 3 switching for campus-wide internetworking.
- Scalability through high capacity 40 Gbps crossbar switching matrix.
- Non-blocking performance per module.

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	Intel Express 550F – 8-port Fibre Routing Switch	44-88-68	3421.16	➧	➧	3438.33
	4-port 10/100TX Moduel for 500 Series Switches	44-34-61	418.79	➧	430.51	426.20
	1000SX Gigabyte Module for 500 Series Switches	46-06-40	499.60	➧	513.59	508.45
	Matrix Module for 500 Series Switches	46-06-57	512.02	➧	526.35	521.09
	2 port 100FX Module for 500 Series Switches	44-34-78	426.31	➧	438.24	433.86
	Stack Interface Module for 500 Series Switches	44-34-85	104.50	➧	107.43	106.36
NEW	Intel Gigabit 6000 Switch	55-30-88	6700.00	➧	➧	6700.00
NEW	Intel Gigabit 6000 Chasis	55-53-44	836.58	➧	860.00	851.40
NEW	Intel Gigabit 6000 Hot Swappable Power Supply	55-94-77	252.92	➧	260.00	257.40
NEW	Intel Gigabit 6000 Multi-fan Module	55-17-21	333.66	➧	343.00	339.57
NEW	Intel Gigabit 6000 Control Processor Module	55-70-22	2580.55	➧	➧	2600.00
NEW	Intel Gigabit 6000 Carrier Module	55-22-65	1916.06	➧	➧	1950.00

OTHER ITEMS
FOR A RANGE OF UPS PRODUCTS SEE PAGES 640–649

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

SWITCHES

OfficeConnect Dual Speed Switch 8
The OfficeConnect Dual Speed Switch 8 allows up to eight flexible connections at either 10 or 100Mbps, making it ideal for connecting servers or multiple hubs in small business using bandwidth-intensive applications such as databases, accounting software or multimedia.

- Eight 10/100 BASE-TX auto-sensing ports.
- Auto-negotiating Full- and Half-Duplex on every port.
- Full wire-rate switching on all ports using store-and-forward switching technology.
- 8,000 MAC Addresses.
- Designed for small businesses.

OfficeConnect Dual Speed Switch 4
The OfficeConnect Dual Speed Switch 4 lets users migrate effortlessly between 10Mbps and 100Mbps. With its four auto-sensing 10/100 ports, the OfficeConnect Switch 4 allows for aggregation of Fast Ethernet hubs, as well as delivering the performance benefits of Fast Ethernet.

- Four 10/100 BASE-TX auto-sensing ports.
- Auto-negotiating, full- and half-duplex on all ports, doubling the throughput when ports are connected to other auto-negotiating, full-duplex devices.
- Full wire-rate switching eliminates bottlenecks that restrict data flow and delay traffic.

Networking pre-sales team 08701 663322



OfficeConnect Dual Speed Switch 16
The OfficeConnect Dual Speed Switch 16 provides connections for up to 16PC's, servers or other networked devices. The switch is simple to install, and no complex management software means that it can be up and running in minutes. Ideal for growing business with networked applications such as databases, accounting software, or multimedia.

- Sixteen 10/100 BASE-TX auto-sensing ports.
- Auto-negotiating Full- and Half-Duplex on every port.
- Full wire-rate switching on all ports using store-and-forward switching technology.
- 8,000 MAC Addresses.
- Designed for small businesses.

Model	OfficeConnect 4	OfficeConnect 8	OfficeConnect 16
No of ports	4	8	16
Port type	10/100Base-TX		
Management capability	No		
Standards	ISO 8802/3, IEEE 802.3		
Dimensions	220 × 185 × 55mm		
Weight	0.96kg	0.9kg	1.0kg
Warranty	Limited Lifetime		
Network cards	See pages 654, 655		

DESCRIPTION	Part No.	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
OfficeConnect Dual Speed Switch 4	3C16733A	46-18-76	107.06	▶	110.06	108.96
OfficeConnect Dual Speed Switch 8	3C16734A	49-18-37	181.75	▶	186.84	184.97
OfficeConnect Dual Speed Switch 16	3C16735A	49-31-35	276.35	▶	284.09	281.25

OTHER ITEMS FOR 3COM HUBS SEE PAGES 666–671

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DUAL-SPEED SWITCHES



The 3Com SuperStack II Baseline Unmanaged Switch has 12 (or 24) 10Base-T switched ports and two 10/100Base-TX (Ethernet or Fast Ethernet) switched ports that automatically detect the speed of connected devices, optimising network performance to 100Base-TX, where applicable.

FEATURES:

- 12 (or 24) RJ-45 10Base-T switched connections.
- Two RJ-45 10Base-T/100Base-TX auto-sensing uplink ports provide high-speed connections to network servers or a backbone connection.
- Auto-negotiating full-/half-duplex operation on each port.
- MAC addresses support up to 750 network devices on your Local Area Network.
- Two MDI/MDIX switchable ports (one 10Mbps port and one 10/100Mbps port) let you cascade hubs and switches and add high-speed downlink connections without using crossover cable.

The **3Com SuperStack Baseline 10/100 Unmanaged Switches** provide 12 or 24 10/100Base-TX switched ports that automatically detect the speed of connected devices, optimising network performance to 100Base-TX, where applicable.

FEATURES:

- 12 or 24 RJ-45 10Base-T/100Base-TX auto-sensing ports provide the ultimate in high-speed switching connectivity.
- Auto-negotiating full-/half-duplex operation on each port doubles the speed of each network connection to 200Mbps.
- MAC addresses support up to 4,000 network devices on your local area nework.
- 19″ size for easy installation in a wiring closet. A rackmounting kit is supplied. The product can also be used free-standing.
- Diagnostic LEDs indicate network traffic and port status of each port.

3Com premier mail order partner

Model	3C16460	3C16462	3C16464A	3C16465A
No & type of ports	12×10Base-T (RJ-45) 2×10/100Base-TX (RJ-45)	24×10Base-T (RJ-45) 2×10/100Base-TX (RJ-45)	12×10/100Base-TX (RJ-45)	24×10/100Base-TX (RJ-45)
Backbone port	MDI/MDIX			
Network speed	10/100Mbps			
Management capability	No			
Type of standard	ISO 8802/3, IEEE 802.3, 802.3u			
Address Table	750	4,000		
Dimensions (W×H×D)	440×173×44mm	440×270×70mm		
Weight	2.0kg	4kg		
Warranty	Limited Lifetime			
Network cards	See pages 654, 655			

Networking pre-sales team 08701 663322

DESCRIPTION	PART NO	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
SuperStack II Baseline Switch – 12×10Mbps & 2×10/100TX ports	3C16460	44-44-53	353.50	♦	363.40	359.77
NEW SuperStack II Baseline Switch – 24×10Mbps & 2×10/100TX ports	3C16462	48-30-92	420.20	♦	431.96	427.64
SuperStack II Baseline 10/100 Switch – 12 ports	3C16464A	46-18-52	353.50	♦	363.40	359.77
SuperStack II Baseline 10/100 Switch – 24 ports	3C16465A	46-18-69	486.89	♦	500.52	495.51

OTHER ITEMS FOR 3COM HUBS SEE PAGES 666–671

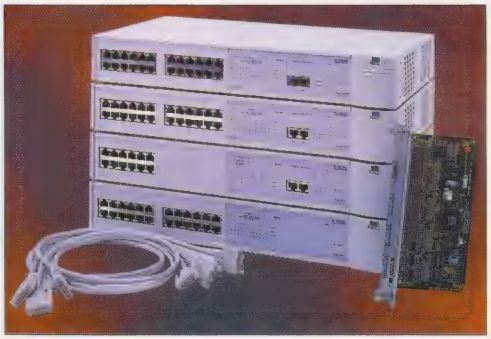
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ETHERNET SWITCHES

SuperStack II Switch 1100 is the third generation 12 or 24 port 10/100Mbps switch, offering peformance and features not available in other stackable network products.

FEATURES:

- **Switch 1100 Configuration** available in 12 or 24 port versions, providing 10Mbps switched plus 2 × 10/100Mbps Ethernet ports with 6,000 MAC address table.
- **High Performance 1Gbps Interconnection** relieves bottlenecks between switches in the same stack.
- **Mix and Match** switch 1100 and switch 3300. Stack up to four units high, supporting up to 104 switched ports.
- **Full Duplex Support** available on all ports to provide bandwidth boost for servers, users and interswitch connection.
- **Flow Control** improves switch efficiency and reduces delays at end-user stations by eliminating packet loss under heavy load or congested conditions.
- **Four Switching Modes** deliver higher performance in error-free networks, reduces the number of bad frames on the LAN and improves the efficiency of error-prone networks.
- **Roving Analysis Port** allows a network analyser attached to any unit in a stack to monitor any of the switch ports in the stack.



- **Web-Based Device Management** using a familiar interface to manage the switch or hub stack, either via a direct connection or across the LAN.
- **IGMP Snooping** enables the implementation of efficient multimedia networks allowing network enhancements to be made in a controlled, risk-free manner.
- **Spanning Tree and Resilient Links** allows the creation of redundant paths to protect against and equipment failure in mission critical applications.

Model	SuperStack II Switch 1100 12-port	SuperStack II Switch 1100 24-port
Number of ports	12	24
Port type	12 × 10Base-T; 2 × 100Base-TX; 1 × Gigabit port	24 × 10Base-T; 2 × 100Base-TX; 1 × Gigabit port
Address table	6,000 Mac	
Management	SNMP & RMON	
Dimensions (W × D × H)	440 × 300 × 70mm	
Weight	4.4kg	
Warranty	Limited lifetime	
Network cards	See pages 654–655	

DESCRIPTION	PART NO	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
SuperStack II Switch 1100 – 12 port	3C16951	44-87-41	411.30	➧	422.81	418.58	
SuperStack II Switch 1100 – 24 port	3C16950	44-87-58	589.16	➧	605.65	599.59	
Switch 100Base-FX module	3C16970	44-89-30	264.56	➧	271.97	269.25	✂
Switch 100Base-FX Dual module	3C16971	44-89-47	442.42	➧	454.81	450.26	✂
Switch 1000Base-SX module	3C16975	44-89-61	442.42	➧	454.81	450.26	✂
Switch Matrix module	3C16960	45-01-62	442.42	➧	454.81	450.26	✂
Switch Matrix module cable	3C16965	45-01-79	56.80	57.40	57.30	57.20	

OTHER ITEMS FOR 3COM HUBS SEE PAGES 666–671

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DUAL-SPEED SWITCHES



With the **SuperStack II Switch 3300** stackable switch, you can scale performance seamlessly with inter-switch communication that enables a stack of SuperStack II Switch 1100 switches or SuperStack II Switch 3300 switches (or a mix of both in the same stack) to perform and be managed as a single entity.

FEATURES:

- Matrix port for connections between switches.
- Ability to mix and match switches in a single stack.
- Management of a switch stack as an entity: single IP address per stack.
- Layer 3 capabilities including Fast IP and IGMP snooping.
- Web-based management included as standard.

The SuperStack II Switch 1100 and Switch 3300 can be stacked up to two units high with just the SuperStack II Switch matrix cable.

- Mix and match Switch 1100 and Switch 3300 within the stack to meet your needs.
- Stack up to four units high – **supporting up to 104 switched ports.**
- SuperStack II Switch matrix module supports 4 × 1Gbps links between switches to create high-density switches without wasting Fast Ethernet or Gigabit Ethernet ports.

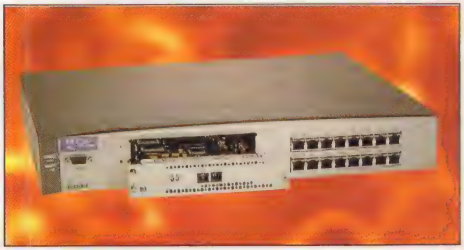
Model	3C16980	3C16981
Number of ports	24	12
Port type	24 × 10/100Base-TX 1 × Gigabit port	12 × 10/100Base-TX 1 × Gigabit port
Management	SNMP & RMON	
Supported standards	IEEE 802.3x, 802.1Q/D	
Dimensions (W × D × H)	440 × 300 × 70mm	
Weight	4.4kg	
Address table	12,000 MAC addresses	
Warranty	Limited Lifetime	
Network cards	See pages 654–655	

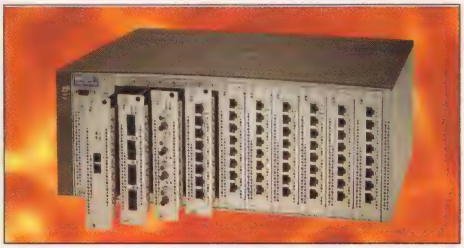
	DESCRIPTION	PART NO	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	SuperStack II Switch 3300 (12 port) – 10/100Mbps	3C16981	46-09-01	731.44	◗	751.92	744.40
	SuperStack II Switch 3300 (24 port) – 10/100Mbps	3C16980	41-93-16	1143.06	◗	◗	1163.31
NEW	SuperStack II 3300XM	3C16985	46-17-78	767.03	◗	788.50	780.62
✂	Switch 10Base-FX Module	3C16970	44-89-30	264.56	◗	271.97	269.25
✂	Switch 100Base-FX Dual Module	3C16971	44-89-47	442.42	◗	454.81	450.26
✂	Switch 1000Base-SX Module	3C16975	44-89-61	442.42	◗	454.81	450.26
✂	Switch Matrix Module	3C16960	45-01-62	442.42	◗	454.81	450.26
	Switch Matrix Cable	3C16965	45-01-79	56.80	57.40	57.30	57.20

OTHER ITEMS FOR NETWORK CABLE GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DUAL SPEED SWITCHES





The **ProCurve 1600M** features 16 ports that can automatically sense 10Mbps and 100Mbps connections.
- Slot for Gigabit connectivity.
- HP Proactive Networking monitors traffic utilisation.
- Cut through layer 3 switching.

HP ProCurve Switch 2424M
A low cost, managed 24-port, expandable 10/100 Ethernet desktop switch.

HP ProCurve Switch 4000M
A managed modular 10/100/Gigabit desktop switch that provides scalable, low-cost switching and all the benefits of HP Proactive Networking.

Networking pre-sales team
08701 66 33 22

HP ProCurve Switch 8000M provides up to 80 10/100 auto-sensing ports, 10 Gigabit ports, 40 100Base-FX ports, or 40 10Base-FL ports.
- The universal slot architecture accepts any HP ProCurve switch module.
- Scalable 10/100/Gigabit connectivity with 3.8–19Gbps total bandwidth
- Cisco Fast EtherChannel technology.
- Cut-through layer 3 switching.

ProCurve Switch 2224
Low-cost desktop switch ideal for delivering performance to workgroups with a mix of 10Mbps and 100Mbps devices and for migrating from 10Base-T to 100Base-TX:
- 24 10/100Base-TX auto-sensing ports
- One open transceiver slot
- Unmanaged
- Low, industry-leading price

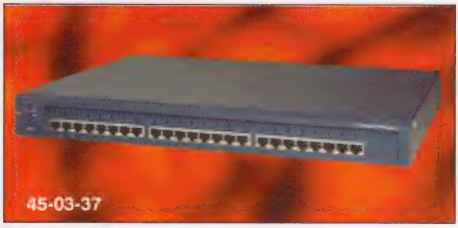
Manu. part No	1600M	8000M	2424M	4000M	2224
No & type of ports	16 × RJ-45, 1 × expansion slot	10 × expansion slots	24 × RJ-45	40 × RJ-45	24 × RJ-45
Network speed	Standard ports are 10/100Mbps				
Management capability	Yes				
Type of standard	IEEE802.1q IEEE802.1p IEEE802.1d IEEE802.3x IEEE802.3z IEEE802.3u				
Dimensions (W × D × H)	442 × 335 × 66	178 × 335 × 442	442 × 335 × 66	442 × 335 × 178	442 × 333 × 66
Weight	4.5kg	9.4kg	4.7kg	10.4kg	4.2kg
Warranty	Lifetime for as long as you own the product				
Print Servers	See pages 708–711				

DESCRIPTION	PART NO	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
ProCurve Switch 1600M 16 port 10/100	J4120A	46-24-35	736.00	➧	756.60	749.03	
ProCurve Switch 2224 24 port 10/100	J4095A	49-18-63	443.67	➧	456.09	451.53	✂
ProCurve Switch 2424M 24 port 10/100	J4093A	49-53-46	737.05	➧	757.68	750.10	✂
ProCurve Switch 4000M 40 port 10/100	J4121A	49-17-62	1561.74	➧	➧	1601.42	
ProCurve Switch 8000M 10 slot chassis	J4110A	46-23-87	899.33	➧	924.51	915.26	✂
ProCurve Switch 100Base-FX module	J4112A	46-24-04	458.38	➧	471.21	466.50	✂
ProCurve Switch Gigabit-SX module	J4113A	46-24-42	534.19	➧	549.14	543.65	✂

OTHER ITEMS FOR HP HUBS SEE PAGES 690, 691

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DUAL-SPEED SWITCHES — CISCO SYSTEMS



The **Cisco Catalyst® 2900 series XL** is a full line of 10/100 auto-sensing Fast Ethernet switches from the leader in networking that combines outstanding performance, ease of use and integrated Cisco IOS® software. The Catalyst 2900 series XL includes four models, each with different port densities, configuration options and pricing to meet a broad range of network design requirements. Available in Standard and Enterprise Editions, the software embedded in Catalyst 2900 series XL switches is upgradable so your investment is protected if your network grows or changes.

The 24-port **Catalyst 2924M XL** switch is an excellent aggregation device, as well as the perfect solution for providing dedicated 10 or 100Mbps bandwidth to individual users. The two versatile module slots of the Catalyst 2924M XL provide expansion capabilities, higher-speed connectivity and support for feature modules, allowing you the flexibility to upgrade your network and preserve your initial investment. The 12-port **Catalyst 2912 XL,** 24-port **Catalyst 2924 XL** and **Catalyst 2924C XL** switches are ideal for delivering low-cost, high-performance and 10-100Mbps bandwidth to individual users and servers.

FEATURES:

- Two switched 100BaseFX ports on Catalyst 2924C XL.
- Up to 64 port-based VLANs per switch.
- Auto-negotiation on each 10/100 port.
- 3.2Gbps switching fabric.
- 3.0 million pps forwarding rate.
- Full duplex on switched 100Base-T ports.

CISCO SYSTEMS RESELLER

NETWORKING PRE-SALES TEAM 08701 663322

Model	C2912-XL-A	C2924-XL-A
No. & Type of ports	12× RJ-45	24× RJ-45
Network speed	10/100Mbps	
Management capability	SNMP, TELNET, RMON	
Type of standard	IEEE 802.3x, 802.1D	
Dimensions	445×248×44mm	
Weight	3.2kg	
Warranty	Limited Lifetime	

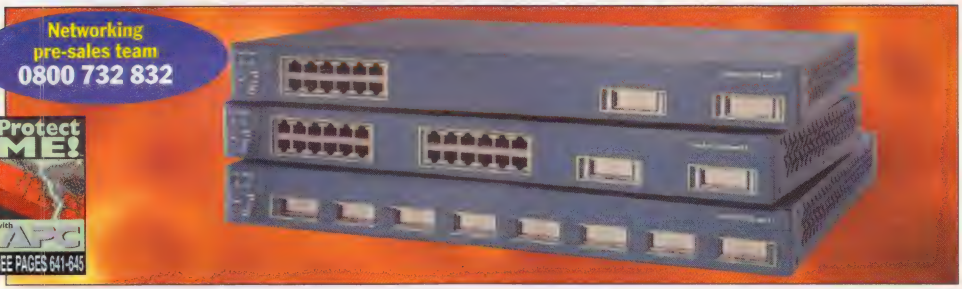
DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Catalyst C2912-XL-A 12-port 10Base-T/100Base-TX auto-sensing Fast Ethernet Switch	49-17-68	753.00	▶	774.08	766.34
Catalyst C2924-XL-A 24-port 10Base-T/100Base-TX auto-sensing Fast Ethernet Switch	45-03-37	843.06	▶	866.66	857.99
Catalyst C2924C-XL-A 24-port Switch with 22x 10Base-T/100Base-TX auto-sensing Fast Ethernet ports and two 100Base-FX ports	45-03-44	1538.85	▶	▶	1542.85
Catalyst C2924M-XL-A 24-port 10Base-T/100Base-TX auto-sensing Fast Ethernet Switch with two expansion slots	49-30-92	1221.22	▶	▶	1242.85

OTHER ITEMS
FOR CISCO REMOTE ACCESS SOLUTIONS SEE PAGES 777–779

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶ Save £££'s!
▶▶ Check live stock
▶▶ Track order status

SWITCHES — Cisco Systems

Networking pre-sales team 0800 732 832



Protect ME! with APC

SEE PAGES 641-645

New Catalyst 3500 Series XL

- Catalyst 3500 Series XL Standard/Enterprise Edition switches
- GigaStack™ GBIC (Gigabit Interface Converter)
- Cluster and Stack management software

The new **Cisco Catalyst 3500 Series XL** is a family of three stackable 10/100 and gigabit switches, a GigaStack™ GBIC stacking connector and java-based switch clustering software. The product line delivers premium performance, manageability and flexibility at an affordable price. The Catalyst 3500 XL products are ideal for network managers who prefer a flexible, stackable and expandable wiring closet solution and require single IP address management.

It is also an ideal replacement for networks migrating from legacy stackable or chassis-based hubs to a 10/100 and Gigabit Ethernet switched network.

FEATURES:

- True, 3rd Generation Stackability.
- High performance, 10/100 and Gigabit Ethernet connectivity.
- Flexibility and Scalability.
- Standards-based VLANs.
- Software Upgradeability.

Product Applications:

- Desktop – 10/100 Desktop Connectivity.
- Stacking and Switch Clustering.
- Aggregation – SMB workgroup and Enterprise workgroup.

Model	3508-XL-A	3512-XL-A	3524-XL-A
No. & Type of ports	8× GBIC	12× RJ-45+ 2× GBIC	24× RJ-45 × 2× GBIC
Network speed	1000Mbps	10/100/1000Mbps	
Management capability	SMNP		
Type of standard	IEEE 802.3x, 802.1D, 802.1Q, 802.3z		
Dimensions	445×406×44mm	445×300×44mm	
Weight	5.4kg	4.6kg	
Warranty	Limited Lifetime		

DESCRIPTION	MODEL	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Catalyst 3512 XL-A: 12-port 10/100 switch with two fixed GBIC-based 1000Base-SX uplinks (Std. Ed.)	WS-C3512 XL-A	49-31-94	1261.93	➧	➧	1284.28	
Catalyst 3524 XL-A: 24-port 10/100 switch with two fixed GBIC-based 1000Base-SX uplinks (Std. Ed.)	WS-C3524 XL-A	49-54-55	1365.10	➧	➧	1389.28	✂
Catalyst 3508 XL-A: 8-port GBIC-based 1000Base-SX Gigabit switch (Std. Ed.)	WS-C3508G-XL-A	49-95-43	2552.18	➧	➧	2571.42	
SX GBIC: 1000BaseSX short wavelength GBIC (multimode fibre only)	WS-G5484	49-70-73	252.45	➧	259.52	256.92	✂
Catalyst 3500 XL Enterprise Edition Software Upgrade, single system licence	WS-C3500-SA6-EN	49-23-09	252.45	➧	259.52	256.92	✂

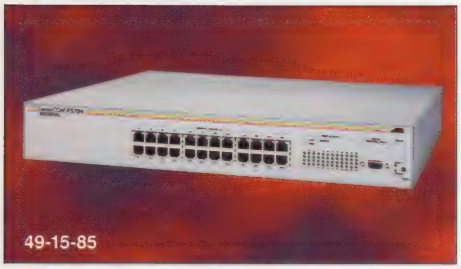
OTHER ITEMS

FOR NETWORK CABLE GUIDE SEE PAGE 599
FOR RANGE OF UPS SEE PAGES 640–649

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ETHERNET/DUAL-SPEED SWITCHES

Allied Telesyn



All ports on the switch auto-negotiate for speed, making it easy and simple for connectivity to a wide range of networks.
A full complement of LEDs, including speed, link connection and activity indications give the user complete port status information, greatly simplifying installation and troubleshooting.

FEATURES:

- 24 dual-speed 10/100TX ports (fixed)
- Half/full-duplex operation on all ports
- IEEE 802.3u compliant auto-negotiation
- Full wire-speed switching on all ports
- Fragment-free cut-through or store-and-forward.
- Support for up to 16,000 MAC addresses
- Automatic address learning and ageing
- Port status and configuratioin
- Plug & Play installation
- One year warranty

Allied Telesyn's AT-FS700 series Fast Ethernet unmanaged switches are the ideal solution for high density desktop or work-group connectivity environments where performance and flexibility have to be balanced with simplicity and affordability. They have been designed to provide network managers with a sensibly priced performance alternative to traditional shared Ethernet technology. Ideally suited as workgroup or segment switches in a network, they provide switched 10Mbps or 100Mbps to the desktop or to shared hubs, to aggregate traffic from workgroup switches, or to provide dedicated 100Mbps to servers with bandwidth-intensive applications. The auto-negotiating 10/100 ports allow for compatibility with today's network while providing a growth path for the future. The AT-FS700 series unmanaged switches offer a 10/100 switching solution that is rich in features and yet easy to use. Automatic MAC address learning and ageing requires no user configuration. A simple user interface provides an easy-to-use command/menu interface for port status and configuration options for additional flexibility.
Each port is capable of operating at either half-duplex or full duplex mode, allowing a full 200Mbps of bandwidth to the end user. The switch can also support up to 16,000 MAC addresses.
The AT-FS718/724 employ the latest ASIC technology for maximum performance. Full wire-speed packet switching is performed efficiently in specialised ASICs.

Model	AT-FS708	AT-FS724i
No. of ports	8 × RJ45	24 × RJ45
Port type	10Base-T/100Base-TX	
Managed	No	
Address table	8,000 MAC	16,000 MAC
Dimensions (W × D × H)	233 × 142 × 45mm	440 × 370 × 66mm
Weight	1.2kg	5kg
Warranty	12 months return to base	
Network cards	See page 656	

Networking pre-sales team 08701 66 33 22

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
AT-FS705 5-port Auto-negotiating 10/100 UTP Switch	49-12-88	86.73	90.06	89.16	88.27
AT-FS705E 5-port Auto-negotiating 10/100 UTP Switch, EXT PSU	49-31-93	78.77	81.79	80.97	80.16
AT-FS708 8-port Auto-negotiating 10/100 UTP Switch	44-22-42	105.30	◗	108.25	107.17
AT-FS708E 8-Port Auto-negotiating 10/100 UTP Switch, EXT PSU	49-54-54	96.24	99.93	98.93	97.94
AT-FS716 16-Port Auto-negotiating 10/100 Switch	49-95-41	226.99	◗	233.34	231.01
AT-FS716E 16-Port Auto-negotiating 10/100 Switch, EXT PSU	49-70-71	206.58	◗	212.36	210.24
AT-FS724i 24-Port Auto-negotiating 10/100 Switch	49-15-85	324.03	◗	333.10	329.77

OTHER ITEMS
FOR NETWORK CABLE GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DUAL SPEED SWITCHES

NETGEAR





PC MAGAZINE EDITORS' CHOICE

NETGEAR FS102/105/108
The **FS102**, **FS105**, and **FS108** are engineered for expanding or segmenting small networks with data-intensive applications, including multimedia, groupware, imaging, large documents and databases. Each port of these mini switches can be connected to a Fast Ethernet (100Mbps) workgroup hub such as NETGEAR FE104 and FE108.

FEATURES:
- 2 × 10/100Mbps auto-sensing RJ-45 ports for FS102, 5 such ports for FS105, 8 for FS108.
- Half/full duplex selectable ports.
- Vista RJ-45 jacks with integrated LEDs for easy installation and troubleshooting.
- 2 Uplink ports for FS102, 1 for FS105.
- Video tape size metal case desktop design.
- External power adaptor.

The **FS508, FS516** and **FS524** are engineered for segmenting networks into 8, 16 and 24 individual groups. Each port can be connected to a Fast Ethernet (100Mbps) workgroup hub. Fully featured switching capabilities such as adaptive forwarding and wire speed filtering/forwarding at breakthrough pricing.

FEATURES:
- 8, 16 or 24 × 10/100Mbps auto-sensing RJ-45 ports.
- 19" Rackmountable (brackets included).
- 1 Uplink port for connection to 100Mbps backbone.
- Network centre performance.
- Internal power supply.
- Vista network ports with built-in LED's.

Model	FS105	FS108	FS308	FS508	FS516	FS524
No. of ports	5	8			16	24
Port type	RJ-45 10Base-T/100Base-TX auto-sensing					RJ-45 auto-sensing
Standards	IEEE 802.3, IEEE 802.3u					
Dimensions (W × D × H)	235 × 103 × 27mm		253 × 180 × 35mm	330 × 203 × 43mm		
Weight	0.73kg		1.3kg	2.3kg	2.1kg	
Warranty	5 years for unit, 1 year for power supply					
Network cards	See pages 695, 698					

DESCRIPTION	PART NO	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
NETGEAR FS105 – 5 port 10/100 switch (Ext PSU)	FS105UK	86-17-58	67.66	70.26	69.56	68.86	
NETGEAR FS108 – 8 port 10/100 switch (Ext PSU)	FS108UK	49-08-78	97.39	▶	100.12	99.12	✂
NETGEAR FS308 – 8 port 10/100 switch (Int PSU)	FS308UK	49-09-19	131.35	▶	135.03	133.68	✂
NETGEAR FS508 – 8 port 10/100 switch (Int PSU)	FS508UK	89-16-42	233.58	▶	240.12	237.72	✂
NETGEAR FS516 – 16 port 10/100 switch (Int PSU)	FS516UK	45-18-24	277.44	▶	285.21	282.36	✂
NETGEAR FS524 – 24 port 10/100 switch (Int PSU)	FS524UK	49-18-41	360.56	▶	370.65	366.94	✂

OTHER ITEMS
FOR NETWORK CABLE GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ETHERNET/DUAL SPEED SWITCHES

D-Link



DES-1016/1024
16/24 port Unmanaged 10/100Mbps Switches with Advanced Features. These unmanaged 10/100Mbps switches are designed to enhance workgroup performance while providing a high level of flexibility. Powerful yet easy to use, these devices allow users to simply plug any port to either a 10Mbps or 100Mbps network to multiply bandwidths, boost response time and satisfy heavy load demands.

The **DES-1005D,** 5-port Palm size 10/100Mbps NWay Ethernet switch presents an oustanding choice for small workgroups. The DES-1005D allows users to simply plug and port to either a 10Mbps or 100Mbps network to multiply bandwidth, boost response time and satisfy heavy load demands.

The **DES-5200 Series FlexSWITCH** is a 5-slot chassis with a SNMP module pre-installed in one full-size slot, 2 additional full-size slots and 2 half-size slots. There are three basic configurations: 24 × 10/100Mbps ports; 16 × 100Mbps fiber ports and 20 mixed twisted pair/fiber ports (12 10/100Mbps plus 8 × 100Mbps fibre ports). In addition optional modules with 2 10/100Mbps ports or 2 × 100Mbps fibre ports can also be installed to increase the port density.

Model	DES-802	DES-815	DES-1008M	DES-1016/F	DES-1024/F	DES-3224
No. of ports	2	12	8	14/22	24	
Port type	10Base-T/10Base-TX RJ-45					
Backbone port	No			MII		
Network speed	10/100Mbps					
Management capability	No					RMON
Fibre optic	No		Optional			Yes
Type of standard	IEEE 802.3, 802.3u					
Network cards	See page 658					

Networking pre-sales team 08701 66 33 22

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DES-802 2 × 10/100Mbps	87-32-99	102.64	◗	105.51	104.45
DES-815 11 × 10/100Mbps + 3 × 100Mbps port switch NWay	87-32-75	249.30	◗	256.28	253.72
DES-1005D 5 × 10/100Mbps NWay switch	49-95-86	94.34	97.96	96.98	96.01
DES-1008M 8 × 10/100Mbps NWay Modular switch	49-60-30	254.95	◗	262.09	259.47
DES-1016 16 × 10/100Mbps NWay Switch	49-31-37	341.65	◗	351.21	347.70
DES-1016/F 14 × 10/100Mbps + 2 × 100Base-Fx port switch	49-31-24	421.51	◗	433.31	428.98
DES-1024 24 × 10/100Mbps Nway switch	49-32-10	641.05	◗	659.00	652.41
DES-1024/F 22 × 10/100Mbps + 2 × 100Base-Fx port switch	49-54-68	583.52	◗	599.86	593.86
DES-3224 24 × 10/100Mbps port switch	49-09-26	821.04	◗	844.02	835.58
DES-5216FX – 16-port 100Base-FX	49-50-14	1540.20	◗	◗	1567.48
DES-5220TF – 12-port 100Base-TX + 8-port 100Base-FX	49-13-16	1251.41	◗	◗	1273.58
DES-5224 – 24-port NWay Switch	49-08-97	1274.59	◗	◗	1297.17

OTHER ITEMS FOR NETWORK PRODUCTS INDEX SEE PAGES 638–639

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

TOKEN RING SWITCHES

olicom

Oilcom's Token Ring Switches offer desktop switching solutions designed to increase LAN bandwidth to workstation PC's with reduced congestion and enhanced manageability. The **Crossfire OC-8600** offers an attractive alternative to intelligent hubs and Fast Ethernet solutions in terms of manageability, pricing, and scalability with ATM uplink capability. If offers 20 ports and full duplex DTR (Dedicated Token Ring) for ultimate performance enhancement. With next-generation switching features and MAC layer and source-route switch handling, this new switch allows backbone, workgroup, and desktop users to achieve the LAN bandwidths needed for today's high-speed applications.

The **Madge 8602** benefits from the same advanced switching architecture that has made the Madge 8600 switches the industry leader in performance, compatibility and ease of use. Based on ASICs specifically developed for Token-Ring, the 8602 provides seamless integration into any existing T–R network, including support for all T–R bridge modes, RI/RO, and spanning tree. Up to eight Madge Token-Ring switches can be stacked together in any combination. The 8602 is integrated into Olicom's ClearSight™ end-to-end network management system. It also supports SNMP and RMON.



The **Smart DeskStream Token Ring Switch** is designed to provide performance, manageability and security for direct PC connections, at a price that makes switching to the desktop a truly viable option. Madge's Smart DeskStream employs high speed, low latency cut-through switching to deliver wire-speed bandwidth to every desk, optimising network-application performance. The highly scaleable stacking architecture offers simple, gradual expansion as additional network connections are required. This means Smart DeskStream can provide a port density of up to 192 ports in a single device, improving ease of management and reducing rack space requirements.

The Smart DeskStream TR Fibre Module allows easy connection in Fibre-oriented networks, whilst HSTR modules increase the available bandwidth for workgroup connections to the network backbone.

Model	Madge Deskstream	Crossfire OC-8600	Crossfire OC-8602
Network type	802.5 Token Ring 4, 16, 32Mbps (Dedicated Token Ring), Auto-speed sensing	5 Token Ring 4, 16, 32 Mbps (Dedicated Token Ring) Auto-speed sensing	
Network ports	24 × RJ-45 (UTP/STP)	20 × RJ-45 (UTP/STP)	
Number of ports	23 Slave, 1 Master/Slave, Two LEDs per port Up to 192 ports (eight switches stacked)	20 up to 224 (eight switches stacked / slots filled)	
Option slots	1 Stacking Module slot, 1 Uplink Module slot situated on rear of unit	2 slots	N/A
Dimensions (W × D × H)	445 × 44 × 325mm	483 × 400 × 88mm	483 × 400 × 66mm
Weight	4.2kg	8.8kg	7.2kg

DESCRIPTION	PART NO	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Madge Smart DeskStream Token Ring Switch	58-30	47-19-69	1810.92	➧	➧	1843.00	
Madge Smart DeskStream TR Fibre Module	58-34	47-19-83	472.33	➧	485.55	480.69	
Madge Smart DeskStream HSTR Copper Module	58-35	47-19-90	554.57	➧	570.10	564.40	
Madge Smart DeskStream HSTR Fibre Module	58-36	47-20-09	654.87	➧	673.20	666.47	
Madge Smart DeskStream Stacking Module	58-37	47-19-76	226.38	➧	232.72	230.39	
Madge Smart DeskStream ATM 155Mbps Module	58-38	47-12-53	1098.20	➧	➧	1117.65	NEW
Madge Smart DeskStream 10/100 Ethernet Module	58-39	44-17-20	942.27	➧	968.65	958.96	NEW
Olicom Token-Ring Workgroup Switch – 20-port UTP/STP	OC-8602	49-37-58	3439.21	➧	➧	3456.47	
Olicom Token-Ring Backbone UTP/STP	OC-8600	46-30-87	3934.36	➧	➧	3954.11	

OTHER ITEMS FOR NETWORK CABLES SEE PAGES 599–636

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NETWORK DISK DRIVES AND STORAGE

NETGEAR Intel

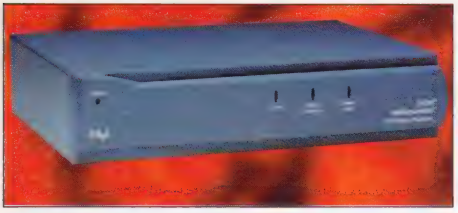


Networking pre-sales team 08701 663322

NETGEAR Network Disk Drives are the first information appliances to use high speed networking technology to simplify the use and installation of storage space on the network. By using a high speed network instead of adding internal hard drives you can add disk capacity for storing customer files, pictures, applications, or any other data quickly and easily. Because NETGEAR uses the latest networking technology, Network Disk Drives are the easiest and fastest way to add extra hard drive capacity for everyone on the network.

Increase hard drive capacity
NETGEAR Network Disk Drives allow you to increase your hard drive capacity without going through the hassle of adding internal hard drives and with better performance than drives connected through a parallel port. No complicated server set up or hardware installation is required.

Model	ND508	ND520
Protocols	TCP/IP, IPX over TCP/IP, NetBEUI over TCP/IP	
Ports	100Base-X: 100Mbps, 10Base-T: 10Mbps	
Capacity	8GB (model ND508)	20GB (model ND520)
Dimensions (W × D × H)	330 × 54 × 207mm	
Weight	4.0kg	
Warranty	Network disk drive - 3 years, Power supply - 1 year	



FEATURES:
- Enhances productivity through employee collaboration.
- Protects your critical files with automated backup.
- Significantly expands storage capacity for your office.

Intel InBusiness™ Storage Solution
New 30GB and 60GB sizes. The Intel InBusinessStorage Station is the ideal way to cost-effectively provide your employees with centralised file sharing and enhanced project collaboration. Protect your critical data with mirroring. Simple installation and set-up make it the easiest way to provide shared storage for your entire office.

- Enhance productivity.
- Increase data prorection.
- Expand storage.
- Simple file sharing for small business with an Intel InBusiness Storage Station.

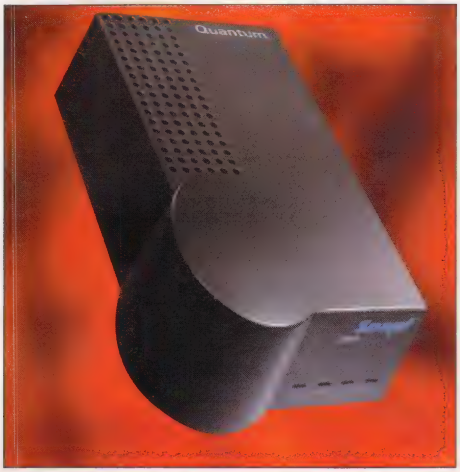
	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
✂	NETGEAR ND508 Network Disk Dive (8GB)	49-32-14	297.25	➧	307.88	304.80
	NETGEAR ND520 Network Disk Drive (20GB)	49-54-69	612.76	➧	629.91	623.61
NEW	Intel InBusiness Storage Station (30GB)	47-12-54	447.11	➧	500.00	480.00
NEW	Intel InBusiness Storage Solution (60GB)	47-08-42	818.19	➧	841.10	832.69

OTHER ITEMS FOR NETWORK PRODUCT INDEX SEE PAGE 638, 639

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

STORAGE SERVERS

Quantum





SNAP! Server is the easiest, most affordable way to add a reliable, set-and-forget storage server to your network. Use it for general purpose file sharing, as a dynamic back up device, software distribution, data protection (network mirroring) or just a temporary location for a lot of data on your network.
You can install a SNAP! Server is under 5 minutes, without disturbing your existing file server or interrupting existing users. No special configuration is needed for ordinary use.

- **Choice of 10, 20 or 40GB of network storage for file sharing.** Snap Server provides the ideal network file sharing solution for the small- to medium-sized networks found in most existing businesses and corporate workgroups.
- **Installs in fifteen minutes or less.** Plug in Ethernet cable, plug in power cord, and power on the Snap Server. Snap Server automatically detects 10 or 100 Megabit Ethernet LAN with no user intervention, and receives automatic IP address assignment from a DHCP, BOOTP or RARP server.
- **Supports Microsoft, Novell, Apple and UNIX NFS networks simultaneously for transport file access.**
- **Integrates with Windows NT Domain security and NetWare bindery.**
- **Remote server management with a Web browser.** Using a Microsoft or Netscape Web browser, you may access the Snap Server for server administration anywhere on the network.
- **Stable underload.** Snap Server routinely supports up to 100 concurrent users, more than other competitors of the same class.
- **Model 1000 – lightweight, weighing only 3lbs.**
- **Model 2000 – supports disk striping (RAID 0) and disk mirroring (RAID 1).**

Key Features

- Capacities available — 10, 20 and 40GB.
- High speed performance.
- Supports Macintosh clients.
- RAID support — RAID 0 and 1.
- Enhance security set up using simple wizards.
- Pre-configured for Windows, NetWare, Macintosh, DOS LAN Manager and UNIX networks.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Quantum 10GB (Snap Server 1000)	49-19-33	373.68	◗	384.14	380.30	NEW
Quantum 20GB (Snap Server 2000, 20GB)	48-30-91	675.00	◗	693.90	686.96	NEW
Quantum 40GB (Snap Server 2000, 40GB)	49-55-53	1209.06	◗	◗	1230.48	NEW

OTHER ITEMS
FOR NETWORK PRODUCT INDEX SEE PAGES 638–639

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

GUIDE TO CONVERTORS AND MULTIPLEXERS

MEDIA CONVERTORS

Media convertors products, are products for evolving networks. They convert from one network media type – defined by cable and connector types and bandwidth – to another. By performing this transition, the media convertor makes it possible to extend legacy networks with the latest technology, instead of the alternative of being tied to what the network was started with or, even worse, tearing it out and starting over. Alternatively convertors allow the use of less expensive, lower bandwidth desktop connections from a state of the art fibre optic back-bone. The ability to mix media and speeds on a network is critical to achieving optimal price/performance goals. Media conversion devices further the flexibility and extensibility of the network by:

- Facilitating upgrades to the network to better, faster, more secure technology – as with fibre cabling without requiring a full newtork retrofit. Legacy copper cabling can be left in place, while fibre is used for additions and extensions to the network.
- Providing a means by which to extend network distances. Using a media convertor to integrate fibre allows the network to support the longer cable distances available through the use of fibre.



- Maximising efficiency and economy in new networks. The media convertor can help the network manager optimise capital for efficiency by enabling a high bandwidth fibre optic backbone to feed copper to workgroups and desktops.
- Being flexible, Media convertors can be inserted almost anywhere in the network.

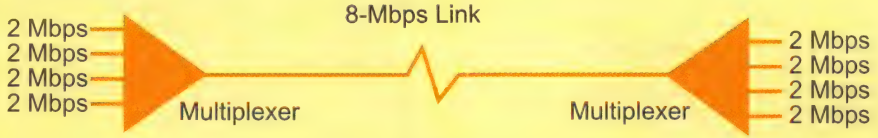
Currently, the most commonly used media convertors support twisted pair to fibre connections. Standard fibre connectors of today typically are classified as either ST (simple-twist) or SC (subscriber-channel).

SEE PAGES 701–704.

INTRODUCTION TO LOW RATE MULTIPLIERS

MULTIPLEXING – A TECHNIQUE THAT ALLOWS SIMULTANEOUS SHARING OF SINGLE COMMUNICATIONS LINK BETWEEN SEVERAL USERS

A standard multiplexer combines several data channels, sends them over a high-speed link and then splits them at the remote end



Two of the most widely used multiplexing techniques in communications are **Time Division Multiplexing** (TDM) and **Statistical Multiplexing** (STM or STDM). Local multiplexers are basically time division multiplexers that include built-in short range modems.

They are used to connect several terminals to computer ports in-house or between buildings, over twisted pairs of fibre optic cables.

To provide connection in-house or between buildings in close proximity, a local multiplexer should be used.

The number of channels, the type of media and the communication format (async or sync) will determine which of the following multiplexers should be used: FLM-1, FLM-12, FLM-2.

OTHER ITEMS

FOR MEDIA CONVERTORS SEE PAGES 701–704

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ETHERNET MEDIA CONVERTERS

Allied Telesyn International



The **Allied Telesyn** range of Ethernet Media convertors provides a complete family of conversion devices, allowing users to extend the size of UTP networks with the use of fibre cabling. Supporting all major fibre connectors, with support for both multi and single mode fibre, these convertors can be used to extend networks with up to 15km of fibre.

Features:

- Compact physical size.
- Plug and play installation.
- MDI/MDI-X crossover switch allows connection to a PC, hub or switch.
- Fibre test switch.
- Installs into AT-MCR12 rackmount chassis.
- MissingLink integrity monitoring (except on AT-MC15).
- All switches, media connectors & LED's on front.
- Single-mode maximum cable distance 15km (AT-MC16, AT-MC17).
- Lifetime warranty.
- Dimensions: 105 × 95 × 25mm, 294g.



The **AT-MCR12 is Allied Telesyn's** new media convertor rackmount chassis. This rackmountable unit supports up to 12 Allied Telesyn media convertors. This allows a network managers to have the flexibility to use Allied Telesyn's MC1x family (10Mbps) or MC10x (see page 705) family (100Mbps) in the same rackmountable chassis.

The **Universal Media Convertor** (cat no. 84-17-26) provides connection between RJ-45 and a Female AUI, thus any transceiver with a standard AUI can be connected to convert the transceiver interface to 10Base-T.

FOR A FULL RANGE OF ALLIED TELESYN HUBS & SWITCHES SEE PAGES 678, 679, 694

Cat No	Part No	Port 1	Port 2	MDI/MDIX	MissingLink	Link Test	Half/full Duplex
26-02-66	AT-MC13	SM Fibre ST	UTP	Yes	Yes	Yes	Yes
49-19-18	AT-MC14	MM Fibre SC	UTP	Yes	Yes	Yes	Yes
49-19-25	AT-MC15	BNC	UTP	Yes	N/A	N/A	Half
49-19-32	AT-MC16	MM Fibre ST	UTP	Yes	Yes	Yes	Yes
45-38-95	AT-MC17	SM Fibre ST	MM Fibre ST	–	Yes	Yes	Yes
49-19-70	AT-MCR12	12 slot rackmount chassis					
49-19-87	AT-PSU	Optional Load Sharing Power Supply for MCR12 Chassis					

DESCRIPTION	ALLIED TELESYN PART NO	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
UTP/Fibre ST Multimode Ethernet Convertor	AT-MC13	26-02-66	81.59	85.36	84.51	83.66	✂
UTP/Fibre SC Multimode Ethernet Convertor	AT-MC14	49-19-18	86.88	90.21	89.31	88.41	
UTP/BNC Ethernet Convertor	AT-MC15	49-19-25	44.86	46.93	46.46	46.00	✂
UTP/Fibre ST Singlemode Ethernet Convertor	AT-MC16	49-19-32	291.20	◗	299.35	296.36	
ST Single Mode to ST Multimode Convertor	AT-MC17	45-38-95	362.01	◗	372.14	368.42	
Universal Media Convertor (connects UTP and AUI)	AT-MC12T	84-17-26	46.12	47.89	47.41	46.94	
12 Slot Media Convertor Rack with 1 × PSU	AT-MCR12	49-19-70	194.13	◗	199.56	197.56	
Redundant PSU for AT-MCR12 Rack	AT-PSU4	49-19-87	73.03	75.83	75.07	74.32	

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FAST ETHERNET MEDIA CONVERTORS

Allied Telesyn International



The **Allied Telesyn** range of fast **Ethernet Media Convertors** provides a complete family of conversion devices, allowing users to extend the size of UTP networks with use of fibre cabling. Supporting all major fibre connectors, with the support of both multi- and single-mode fibre, these converters can be used to extend networks with up to 15km of fibre. The Allied Telesyn range of **850nm fibre Fast Ethernet media convertors** (Cat No 45-36-80 and 45-98-34) allows users to extend the size of UTP networks with the use of fibre cabling. Converting between 100Base-TX and 100Base-SX fibre quickly and reliably, the AT-MC105XL and AT-MC106XL address the growing demand for a low cost solution for fibre installations of 300 metres or less.

FOR A FULL RANGE OF ALLIED TELESYN HUBS & SWITCHES SEE PAGES 678, 679, 694

Cat No	Product	Port 1	Port 2	MDI/MDIX	Missing Link	Link Test	Half/Full Duplex
44-22-66	AT-MC103LH	SM Fiber SC LH	UTP	Yes	Yes	Yes	Yes
47-31-08	AT-MC104LH	SM Fiber SC LH	MM Fiber SC	Yes	Yes	Yes	Yes
44-22-66	AT-MC101XL	UTP	Yes	Yes	Yes	Yes	Yes
44-22-73	AT-MC102XL	UTP	Yes	Yes	Yes	Yes	Yes
46-62-59	AT-MC103XL	UTP	Yes	Yes	Yes	Yes	Yes
45-27-72	AT-MC104XL	MM Fibre SC	—	Yes	Yes	Yes	Yes
45-36-80	AT-MC105XL	UTP	Yes	Yes	Yes	Yes	Yes
45-98-34	AT-MC106XL	UTP	Yes	Yes	Yes	Yes	Yes
49-19-70	AT-MCR12	12 Slot Rackmount Chassis					
49-19-87	AT-PSU4	Optional load sharing power supply for MCR12 Chassis					

DESCRIPTION	PART NO	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
UTP/Fibre SC Single Mode Long Haul Converter	AT-MC103LH	46-17-81	408.39	➧	423.00	418.77
Fibre SC/Fibre SC Multimedia to Single Mode Converter	AT-MC104LH	47-31-08	432.50	➧	444.61	440.16
UTP/Fibre ST Multimode Fast Ethernet Convertor	AT-MC101XL	44-22-66	133.67	➧	137.41	136.04
UTP/Fibre SC Multimode Fast Ethernet Convertor	AT-MC102XL	44-22-73	135.99	➧	140.85	139.44
UTP/Fibre SC Singlemode Fast Ethernet Convertor	AT-MC103XL	46-62-59	330.00	➧	339.24	335.85
UTP/Fibre SC Multimode to SC single mode Fast Ethernet Convertor	AT-MC104XL	45-27-72	551.32	➧	566.75	561.08
UTP/Fibre ST Multimode 850nm Fast Ethernet Convertor	AT-MC105XL	45-36-80	96.08	99.77	98.77	97.78
UTP/Fibre SC Multimode 850nm Fast Ethernet Convertor	AT-MC106XL	45-98-34	96.08	99.77	98.77	97.78
12 Slot Media Convertor Rack with 1 × PSU	AT-MCR12	49-19-70	194.13	➧	199.56	197.56
Redundant PSU for AT-MCR12 Rack	AT-PSU4	49-19-87	73.03	75.83	75.07	74.32

OTHER ITEMS FOR NETWORK CABLES SEE PAGES 599–616

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

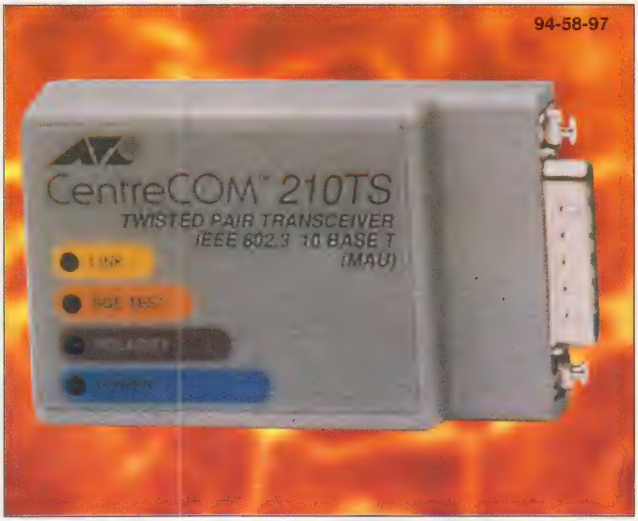
ETHERNET TRANSCEIVERS

Allied Telesyn International

The **CentreCOM Micro Transceivers** are the latest in Ethernet fibre optic local area network (LAN) micro transceivers. These Micro Transceivers are plug compatible with most IEEE 802.3 hardware and implement all Etherent transmit, receive and collision detection functions. Electrical connections and power are supplied via the Attachment Unit Interface (AUI) 15-pin D subconnector. Interface is mechanically and electrically identical to coaxial cable transceivers. Compact size and narrow chassis allow these transceivers to connect directly to almost all Data Terminal Equipment (DTE) or hubs, bringing fibre optic cabling directly to the desktop and in most cases, eliminating the need for an AUI cable.

FEATURES:

- IEEE 802.3 10Base-FL/FOIRL compliant, Ethernet Version 1.0 and 2.0 compatible and FL/FOIRL.
- Fibre ST single mode allows up to 14km in network cable distance.
- Direct AUI connection.
- Wide optic input dynamic range.
- Loopback function emulates AUI (10Base-5 transceiver).
- Sophisticated link monitor function and LED.
- Six status LED's: Transmit, Receive, Link, Collision, Jabber and Power.
- Switch selectable Signal Quality Error (SQE)/Heartbeat test.
- Lifetime warranty.
- Free Technical Support.



The **CentreCOM Micro Transceivers** are 10Base-2 and 10Base-T compliant transceivers designed to reduce Ethernet cabling costs. Compact size allows these transceivers to connect directly to the workstation, bringing thin Ethernet or Unshielded Twisted Pair (UTP) wiring directly to the workstation. With UTP and inexpensive coax network media, distances up to 100m between workstations can be supported using UTP and up to 185m using coax.

FEATURES:

- IEEE 802.3 compliant and Ethernet Version 1.0 and 2.0 compatible.
- Direct Attachment Unit Interface (AUI) connection.
- Slim-line versions (AT-MX10S, AT-210TS) for improved mechanical fit for Macintosh, Sun SPARC stations and IBMRS/6000 workstations.
- Switch-selectable SQE test (all models) and LED (AT-MX10, AT-MX10S, AT210T, AT-210TS).
- Polarity detection and correction (AT-MX20T, AT-210T, AT-210TS) and LED (AT-210T, AT-210TS).
- Link integrity test function and LED (AT-MX20T, AT-210T, AT-210TS).
- Five year warranty.

DESCRIPTION	ALLIED TELESYN PART NO	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
10Base-T Slimline Transceiver (AUI to UTP)	AT-210TS	94-58-97	15.06	15.64	15.48	15.33
10Base-T Transceiver (AUI to UTP)	AT-210T	44-47-07	15.06	15.64	15.48	15.33
Fibre Optic Micro Transceiver (AUI to ST)	AT-MX40F	87-01-06	64.64	67.12	66.45	65.78
BNC Micro Slimline Transceiver (AUI to BNC)	AT-MX10S	94-58-80	14.91	15.48	15.33	15.17
10Mbps Thick Ethernet Transceiver	AT-206	49-20-65	36.25	37.64	37.26	36.89

OTHER ITEMS
FOR NETWORK PRODUCT INDEX SEE PAGES 638, 639

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ETHERNET TRANSCEIVERS CONVERTORS

D-Link



The **D-Link mini-sized Ethernet transceivers** provide quick and easy attachment from a host to any Ethernet media types, including thick and thin coax, 10Base-T UTP and fibre optics.

FEATURES:
- Ultra small size (42 × 60 × 10mm).
- Selectable SQE (heartbeat).
- Directly attaches to host's AUI connector without transceiver cable.
- Diagnostic LEDs.
- 5 Year Warranty.

All Ethernet Media Support
The Ethernet transceivers are Attachment Unit Interfaces (AUI) for quick and easy attachment to all types of Ethernet cables. All have an AUI connector for easy connection to a host.

No AUI Cable Required
Ultra-small, models DE-851, DE-853 and DE-854 can directly attach to the host's AUI connector, dispensing with cumbersome AUI cables and saving you cost!

Low-Cost Alternative to Repeater
The DE-855 has 1 UTP port and 1 BNC port and is useful for connecting a small workgroup to a main network. It conveniently connects a small cluster of stations on the coaxial cable to a 10Base-T concentrator, saving the cost of an extra repeater.

NETWORKING PRE-SALES TEAM 08701 66 33 22

DE-855
Ethernet Media Converting Repeater
(1 RJ-45, 1 BNC)
DE-854
Ethernet Fibre Transceiver
(1 ST, 1 AUI)

DE-853
Ethernet UTP Transceiver
(1 RJ-45, 1 AUI)
DE-852
Ethernet Thicknet Transceiver
(1 N-Series, 1 AUI)

DE-851
Ethernet Thinnet Transceiver
(1 BNC, 1 AUI)

Model	DE-851	DE-852	DE-853	DE-854
Network connector	BNC	N-series	RJ-45	ST
Network topology	10Base-2	10Base-5	10Base-T	Fibre optics
DTE port	15-way AUI can be connected directly to workstation			
SQE enable/disable	Yes			

Each of these transceivers attaches to the host via a DB-15 way AUI connector and features a user-selectable switch to enable and disable SQE (heartbeat).

DESCRIPTION	FOR USE WITH	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DE-851 Micro Transceiver – BNC	10Base-2	77-15-11	13.89	14.42	14.28	14.13
DE-852 Micro Transceiver – N Series	10Base-5	77-15-28	37.41	38.85	38.46	38.08
DE-853 Micro Transceiver – RJ-45	10Base-T	77-15-35	13.15	13.65	13.51	13.38
DE-854 Micro Transceiver – ST	ST Fibre	77-15-42	62.14	64.52	63.87	63.24
DE-855 Media Converter – RJ-45 to BNC	—	79-32-76	40.22	41.76	41.34	40.93

OTHER ITEMS FOR D-LINK PRINT SERVERS SEE PAGE 738

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

GUIDE TO PRINT SERVERS

All you need to know about Print Servers...

What is a print server?
A print server is a network hardware device which will enable any printer to be directly connected to the network, therefore allowing user PCs to share printers in a network environment. It is dedicated to processing, managing and prioritising print jobs. By adding one to your network, printing not only becomes simpler, it's faster and more cost-effective without compromising the benefits of the network itself. In the early days of networks your print server would normally have been a user PC dedicated to managing the network print jobs, however this was a costly exercise and could also raise concerns about security of your network ie: having an unattended user PC. Print Servers vary in style, some will be external as a standalone box, in addition some may only allow a single printer to be attached whereas others will support up to three network printers.

Why a print server?
If you're running a small business, or an office from home and have a network that shares a printer through one of your PCs, you'll know how that can slow things down causing unnecessary delays. Not only is the PC processing your work affected, so is every other user on the network. Simply by adding a print server to your network you can stop this happening.

Print Servers	Page
Axis	712
3Com	708
D-Link	714
Hewlett-Packard	708–711
Intel	706, 707
Netgear	713

What does it connect to and where does it fit into my network?
If your print server is external it will be situated between your network cabling and your printer, however the internal version will sit directly inside your printer. Below is a diagram to show where the external version would be situated.

Internal or External?
There are two types of print servers – internal and external. Internal print servers are cards that fit inside the back of the printer. External print servers offer several advantages to internal cards. Firstly, external solutions are compatible with virtually any brand of printer, which allow you to network older printers as well as any brand of printer you might be buying in the future. External print servers can also network more than one printer – which results in a lower cost per printer port.



49-06-03

OTHER ITEMS FOR NETWORK PRODUCT INDEX SEE PAGES 638, 639

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRINT SERVERS

intel





The **Intel Netport Express 10/100 Print Server** provides integrated support for virtually all printers and Network Operating Systems (NOS). Two models offer a simple and flexible solution for your network printing needs: a single-port model for standalone printers, and a three-port model for clustering multiple printers such as monochrome laser, inkjet colour, or label printers. Just plug the print server into your Ethernet or Fast Ethernet network and you can be printing in minutes.

FEATURES

- Reliability and performance through Intel processor technology
- Save time with easy set up and management
- Compatible with virtually any printer and NOS for exceptional flexibility
- Seamlessly adjusts to 10Mbps and 100Mbps LANs

The **Intel InBusiness Print Station** is the easiest way to share virtually any printer over your Ethernet or Fast Ethernet network. The installation Wizard makes set-up so simple that your business will be sharing multiple printers in minutes. The Print Station is independent of your PC, so it doesn't require memory resources from a shared workstation during the print cycle.

FEATURES:

- Connects printers to the network independent of PCs.
- Supports two printers with single 10Base-T or 100Base-TX connection.
- Increase productivity by conveniently locating printers.
- Simple installation wizard.

Model	10/100 Single port	10/100 Three port	Print Station
Number of ports	1 parallel	2 parallel, 1 serial	2 parallel
Number of simultaneous printers	1	2	
Auto-senses between 10 and 100Mbps	Yes		
Network port	RJ-45		
NOS supported	Windows NT, Windows 95, Windows 98, Windows 3.11, NetWare 3.1x, NetWare 4x, NetWare 5x, Solaris, SunOS, HP-UX, AIX, SCO Open Desktop, SCO unixWare, macOS, LANmanager, LANserver		

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NetportExpress 10/100 Auto-sensing Single port	46-09-87	130.86	➧	134.52	133.17
NetportExpress 10/100 Auto-sensing Single port (**3 pack**)	46-09-94	352.87	➧	362.75	359.12
NetportExpress 10/100 Auto-sensing Three port	49-06-03	190.40	➧	195.73	193.77
Netport Express 10/100 Auto-sensing Three port (**3 pack**)	49-06-10	513.87	➧	528.26	522.98
InBusiness Print Station	49-94-75	95.10	98.75	97.76	96.78

OTHER ITEMS
FOR INTEL HUBS SEE PAGES 663–665
FOR INTEL SWITCHES SEE PAGES 685–688

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRINT SERVERS

intel

Intel's single-port NetportExpress 10 Print Server lets you connect any standalone printer anywhere on your Ethernet LAN. This seventh-generation print server features fast setup, remote management and compatibility with virtually any printer. Proven Intel technology delivers simple, reliable 10Mbps operation. Intel Netport Manager software is included for remote management via web, Windows or SNMP applications.

FEATURES:

- Configuration wizards save time with quick and easy set-up.
- Reliability through Intel processor technology.
- Manage your print servers from anywhere in the world.
- Broad compatibility – support for all popular network operating systems, all major LAN protocols and virtually all printers.

FOR INTEL's 10/100 PRINT SERVERS SEE PAGE 706



Intel's three-port NetportExpress 10 Print Server lets you cluster up to three printers on one device – anywhere on your Ethernet LAN.

FEATURES:

- Two parallel ports, one serial port.
- Includes both BNC and RJ-45 connector.
- Configuration wizards for quick, simple setup.
- Reliability through Intel Processor technology.
- Broad compatibility – support for all popular operating systems and virtually all printers.

Model	NetPortExpress 10 Single-port	NetPortExpress 10 3-port	Pro Token Ring
Network ports	1 × RJ-45	1 × RJ-45/1 × BNC	1 × RJ-45/1 × DB9
Printer ports	1 Parallel	2 × Parallel/1 × Serial	
Network speed	10Mbps		4/16Mbps
Printer software management	Yes		
Protocol/operating systems supported	IPX/SPX – Novell NetWare TCP/IP – Microsoft Windows 95, NT, 3.1x, NetBEUI – Windows 95, NT, 3.1x, LAN Manager IBM LAN Server UNIX – SunOS, SCO, SunSoft Solaris, HP/UK, IBM, AIX, UnixWare and BSD (LPD/LPR) AppleTalk		
Managment supported	LANDesk Mangement Suite, Novell ManageWise, any SNMP Management Console		

Connector B



BNC Connector

Connector C



RJ-45 Connector

Connector F



DB 9-way Female

Networking pre-sales team 08701 66 33 22

DESCRIPTION	CONNECTOR TYPE	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NetportExpress 10, single port	C	49-30-87	86.61	89.93	89.03	88.14
NetportExpress 10, single port (**3 pack**)	C	49-53-44	235.98	▶	242.59	240.16
NetportExpress Pro 10 3-port	C/B	95-96-32	155.12	▶	159.46	157.87
NetportExpress Pro 10 3-port **(3 pack)**	C/B	44-04-95	418.31	▶	430.02	425.72
NetportExpress Pro (**Token Ring**)	F/C	83-32-53	294.07	▶	302.30	299.28

OTHER ITEMS

FOR NETWORK CABLE GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRINT SERVERS



The **HP JetDirect/OfficeConnect 300X Print Server** is designed to dramatically reduce the time small businesses spend dealing with network printing issues. Rigorous performance and reliability testing deliver the ensured connectivity users have come to rely on from a 3Com OfficeConnect environment and from HPs award-winning line of HP JetDirect print servers.

FEATURES:

- Optimised for small offices.
- Simple installation and troubleshooting.
- HP JetAdmin and HP Web JetAdmin printer management software provide easy installation, configuration and maintenance of network printers.
- Includes multi-NOS/multiprotocol support for Ethernet and Fast Ethernet networks.
- Auto-negotiates between 10Mbps/100Mbps speed and full-/half-duplex mode.



The HP JetDirect/OfficeConnect 170X Print Server for Ethernet networks, with HP JetAdmin software, is a simple, affordable solution for sharing printers on a network. When a small business or office wants to connect a printer with a parallel port or supported HP All-In-One peripheral to its growing – simply and affordably – the HP JetDirect 170X OfficeConnect makes it possible.

FEATURES:

- Provides remote installation and configuration of HP JetDirect-connected printers in easy steps.
- Offers real-time access to printer status and diagnostic information.
- Reliably locates peripherals on the network and automatically enters printers into a database.
- Offers instant, on-screen notification of network printing problems.

Model	JetDirect/OfficeConnect 300X	JetDirect/OfficeConnect 170X
Number of ports	1 parallel port	
Number of simultaneous printers	1	
Autosenses between 10 and 100Mbps	Yes	10Mbps only
NOS supported	Windows 95, Windows 98, Windows NT, NetWare 3.x and 4.x, intraNetware, artisoft LANtastic 7.0	

Networking pre-sales team 08701 66 33 22

DESCRIPTION	PART NO	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
HP JetDirect 300X OfficeConnect Print Server	J4101B	47-06-47	187.12	➧	192.36	190.44
HP JetDirect 170X OfficeConnect Print Server	J4102B	49-06-34	94.06	97.67	96.69	95.73
HP JetDirect 300X (**External**) RJ-45 – 10/100Base-TX	J3263A	44-76-49	179.21	➧	184.23	182.39
HP JetDirect 170X IP/IPX Print Server	J3258B	47-06-78	91.37	94.88	93.93	92.99

OTHER ITEMS FOR HP HUBS SEE PAGES 680–681

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRINT SERVERS

The IPP-enabled HP JetDirect 500X print server allows for simple Internet printing by allowing documents to be sent from a PC to any Internet-connected printer.
Additionally, the HP JetDirect 500X print server delivers the industry's first print-server support for HP all-in-one devices, enabling scanning across the network. Furthermore, through the HP embedded Web server, the new print server allows installation and management support for HP all-in-one devices, thereby providing network administrators with easy access to peripheral diagnostic information via a standard Web-browser interface.
The HP JetDirect 500X print server also provides a simplified means of networking up to three peripherals; automatically adjusts for 10Base-T or 100Base-TX networks and supports most major network operating environments, including Token Ring (J3264A).

FEATURES:
- 10/100Base-TX (J3265A) & Token Ring (J3264A).
- The only 10Base-2/10/100BTX combo.



- Internet Printing Protocol.
- Embedded Web Server.
- HPs special All-In-One peripheral support.
- Automatic Network Printer Installer for NT 4.0.
- 1 network address only.
- Upgradability via 2MB flash memory.

The **HP JetDirect 4000 Print Appliance** hosts print queues and localises print traffic to streamline network printing. It uniquely provides file-server independent print spooling which increases file server bandwidth. And it enables browser-based queue and print job management from anywhere on an Ethernet network. All of which improves printing performance.
- Broswer-based management and simple installation increase IT productivity.
- File-server independence ensures printing is always available.
- Localised print traffic results in faster, more reliable printing.

Simple
- Simple IP configuration via front panel keypad or DHCP.
- Easy, 15-minute installation.
- Customises for printing, with easy set up and maintenance.
- Instant access to remote print queues via embedded Web server and common browser.
- Create, view, pause and delete print queues.

Reliable
- Print-focuses appliance improves printing reliability.
- Administrative password protection.

Compatible
- Client-printing support for Microsoft® Windows® 95, Windows 98, Windows NT 4.0 and Windows 2000.
- 10/100Base-TX Ethernet networks.
- Compatible with HP Web JetAdmin 6.0 and later (not required).

Networking pre-sales team
08701 66 33 22

DESCRIPTION	HP PART NO	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
HP JetDirect 500X 10/100 Printer Server 3 port	J3265A	47-06-54	214.01	▶	220.00	217.80	
HP JetDirect 500X Token Ring Print Server 3 port	J3264A	47-06-61	315.18	▶	324.00	320.76	
HP JetDirect 4000 10/100 Print Alliance	J4107A	48-30-94	855.99	▶	879.95	871.15	NEW

OTHER ITEMS

FOR NETWORK CABLE GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRINT SERVERS



Hewlett-Packard has a wide range of **Print Servers** to suit every need, for a full range of specs see page opposite. Action offer the whole family of HP Print Servers including:

HP JetDirect MIO Internal Print Server for Ethernet, Local Talk and Token Ring networks.
FEATURES:
- Ideal for medium to large businesses using HP MIO printers.
- Supports any HP printer with a MIO slot.
- Multiple NOS/multi-protocol support.
- Flash memory for easy software upgrades.
- Simple installation.
- Maximises performance for any HP MIO network printer.

yes It runs with NetWare

Designed for Microsoft Windows NT Windows 95

hp invent

HP JetDirect EX Plus External Print Server for Ethernet networks.
Perfect for medium to large corporations with print server requirements not tied to a specific printer.

FEATURES:
- Supports any printer with a parallel port.
- Multi NOS/multi-protocol support.
- Automatic protocol switching.

HP JetDirect 150X External Print Server for Ethernet networks
Intended for small businesses that want optimised printer location, faster document printing and increased reliability.

FEATURES:
- Ideal for medium to large business using HP MI0 printers.
- Supports any printer with a parallel port.
- Developed especially for Novell NetWare and Windows NT server environments.

Networking pre-sales team
08701 66 33 22

DESCRIPTION	HP PART NO	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
HP 400N JetDirect Card – MIO (RJ-45/10Base-T only)	J4106A	49-50-79	219.20	➧	225.34	223.09
HP 400N JetDirect Card – BNC (10Base-2)/RJ-45 (10Base-T) & Flash Memory	J4100A	49-50-86	246.90	➧	253.81	251.27
HP 400N JetDirect Card – MIO Token Ring	J4105A	49-50-62	369.19	➧	379.53	375.73
HP JetDirect EX Plus – RJ-45 (10Base-T)/BNC (10Base-2)	J2591A	83-17-98	179.21	➧	184.23	182.39

OTHER ITEMS FOR NETWORK CABLE GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRINT SERVERS

HP JetDirct 600N Internal Print Servers (EIO) for Ethernet, Fast Ethernet and LocalTalk networks.

FEATURES:

- Supports HP LaserJet 4000, 5000 and 8000 series printers.
- Multiple NOS/multi-protocol support.
- Automatic protocol switching.
- 2MB flash memory.
- Simple installation.
- Maximises performance for any HP EIO network printer.



Networking pre-sales team 08701 66 33 22

HEWLETT PACKARD		Network Operating System (Protocol) Support									
PART NUMBER	Network Type/Port	Novell NetWare v3.11, 3.12 4.X (IPX/SPX) Novell NDS and NDPS (IPX/SPX)	Microsoft Windows 95 Networking (IPX/SPX), (TCP/IP)	Microsoft Windows NT v3.5, 3.51 4.0 (TCP/IP), (DLC/LLC), (IPX/SPX)	Microsoft Windows for Workgroups v3.1, 3.11 (DLC/LLC)	Microsoft LAN Manager v2.0C, 2.1, 2.2 (DLC/LLC)	IBM OS/2 Warp (TCP/IP) v1.3, 2.0, 3.0, 4.0 (DLC/LLC)	HP-UX v9.x, 10.x Solaris v2.3, 2.4, 2.5x; SunOS v4.13, 4.14; SCO UNIX V/386 v3.2, 4.2, 5.0*; IBM AIX v3.2.5 and later* MPE-iX v5.5* (TCP/IP)	Line Printer Daemon (lpd)	Apple EtherTalk System 7	Artisoft LANtastic with PowerSuite (DLC/LLC)*
J3110A	Ethernet/802.3 RJ-45 (10Base-T)	●	●	●	●	●	●	●	●	●	●
J3111A	Ethernet/802.3 BNC (10Base-2) RJ-45 (10Base-T) LocalTalk System 7	●	●	●	●	●	●	●	●	●	●
J3112A	Token Ring/802.5 DB9, RJ-45	●	●	●	●	●	●	●	●		●
J3113A	Fast Ethernet Ethernet/802.3 RJ-45 (10/100 Base-TX)	●	●	●	●	●	●	●	●	●	●

HEWLETT PACKARD HELPLINE 08701 66 99 77

DESCRIPTION	PART NO	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
HP JetDirect 600N Ethernet (RJ-45)	J3110A	44-43-43	162.29	▶	166.83	165.16	✂
HP JetDirect 600N Ethernet (RJ-45/BNC)	J3111A	44-43-50	189.21	▶	194.51	192.56	✂
HP JetDirect 600N Token Ring (DB9/RJ-45)	J3112A	44-43-67	286.90	▶	294.93	291.98	✂
HP JetDirect 600N Fast Ethernet (RJ-45)	J3113A	41-39-72	203.82	▶	209.53	207.43	✂

OTHER ITEMS
FOR HP HUBS SEE PAGES 680–681
FOR HP SWITCHES SEE PAGE 691

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRINT SERVERS

AXIS COMMUNICATIONS





Axis supply a complete range of high performance print servers – which cover all environments from small offices with a basic Windows network, to a Corporate business with a Host-to-LAN solution.
The multi-protocol **AXIS 5400** and **AXIS 5600** provide the fastest throughput in the industry at over 1MB/sec.
The **AXIS OfficeBasic** print server is ideal for small offices that want to connect a printer directly to the network.

FEATURES:

- 3 click simple installation and configuration with Auto-Go utility.
- Embedded Web server for easy configuration and administration.
- Complete simultaneous multi-protocol/network operating system support.
- Simultaneous 10/100Base-T.
- FREE upgrade warranty.
- 1 port models – directly plug into any networked printer.
- 3 port models.

Model	Axis 540+	Axis 5400	Axis 560	Axis 5600
Network topology	10Base-T	10Base-T & 100Base-TX	10Base-2 & 10Base-T	10Base-T & 100Base-TX
Network op. systems	Netware, LAN Manager/LAN Server, Windows, OS/2, LANtastic Apple EtherTalk, TCP/IP			
Network port	RJ-45		BNC and RJ-45	RJ-45
Printers port	1 × parallel		2 Parallel, 1 Serial	
Package contents	Print server, manual, software, AC adaptor			
Dimensions (W × D × H)	118 × 56 × 27mm	61 × 121 × 24mm	155 × 120 × 25mm	160 × 129 × 29mm
Weight	0.1kg		0.28kg	
Warranty	5 years			

*These print servers do not support Unix 5.42

DESCRIPTION	FOR USE WITH	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Axis Printpoint 540+ 10Mbps	10Base-2	44-56-65	125.89	➧	129.41	128.12
Axis Printpoint 5400 10/100Mbps	10Base-T & 100Base-TX	49-05-55	137.33	➧	141.17	139.76
Axis Printpoint 560 10Mbps	10Base-2 & 10Base-T	87-36-91	179.67	➧	184.70	182.85
Axis Printpoint 5600 10/100Mbps	10Base-T & 100Base-TX	49-05-62	185.39	➧	190.58	188.67
Axis Office Basic	10Base-T+10/100 Base-T	48-17-68	CHECK ONLINE	➧	➧	FREE Call

OTHER ITEMS FOR NETWORK CABLE GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRINT SERVERS

NETGEAR



The **NETGEAR PS110 print server** provides two parallel ports for print sharing. The 10/100 auto-sensing RJ-45 network port ensures capability with 10Mbps and 100Mbps LANs.

FEATURES:

- Up to 100 PCs (up to 30 PCs per workgroup), 2 parallel printers.
- 10 and 100Mbps ready.

NETGEAR's new print servers make printer sharing fast and easy with support for Windows NT/95/Workgroups, NetWare, OS/2, LAN Server and Unix. The PS110 and PS104 print servers are ideal for small to medium businesses, easy to install with Windows configuration wizard and have extensive LED indicators for at-a-glance status.

PS105 10Mbps Print Server with integrated 4-port hub plus BNC port

The **PS105** is an all-in-one network printing solution for the SOHO users. The simple FirstGear™ installation and monitoring software brings ease of ue to the small office environment which cannot be troubled with technical difficulties. The PS105 delivers affordable and simple solutions, reducing the total cost of ownership of network printing.

FEATURES:

- Network Solution in a box: Print Server+4 port Ethernet hub with 5th, BNC port
- Supports HP, Canon, Epson, and all major parallel printers
- Prints concurrently from Windows®, NetWare, and UNIX
- Flash EPROM upgradable
- Five year warranty

Networking pre-sales team 08701 66 33 22

Model	PS110	PS105
Number of ports	2 × parallel, 1 × RJ-45 10/100 auto-sensing	4 × 10Mbps RJ-45, 1 × BNC
Number of simultaneous printers	2	1
Autosenses between 10 and 100Mbps	Yes	No
NOS supported	Windows NT/95/Workgroups, NetWare, OS/2, LAN Server and Unix	

DESCRIPTION	CONNECTOR	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NETGEAR PS110 Print Server	C	45-18-48	80.50	83.59	82.75	81.93
NETGEAR PS105 Print Server	C	49-31-44	62.36	64.75	64.10	63.46

OTHER ITEMS
FOR NETGEAR NICs SEE PAGE 657
FOR NETGEAR HUBS SEE PAGES 672–675

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRINT SERVERS

D-Link



The **D-Link DP-101** is an Ethernet Print Server that attaches directly to a parallel printer. The DP-101 manages the flow of print files from network workstations or servers to its connected printer, freeing file servers and workstaitons from printing tasks. Its IEEE 802.3 Ethernet port and IEEE 1284 parallel interface allow it to connect virtually all parallel printers directly to an Ethernet based LAN. The DP-101 provides the necessary advanced features, wide protocol support, and ease of use to fit well into networks ranging from small home networks, to the largest enterprise networks.

D-Link's DP-301P multi-protocol print server turns any printer into a network printer through a simple plug to the printer port. Supporting multiple protocols and a high-speed printer port, this compact hand-held device brings a high level of flexibility and performance to your small or home office printing needs.

1 NWay Port, 1 Parallel Port
The DP-301 makes network connection easy through the use of an NWay connection which allows the DP-301 to be used with either Ethernet or Fast Ethernet LAN.

Multi-protocol Support
Supporting IP, IPX, NetBEUI and Apple EtherTalk protocols, along with Ethernet or Fast Ethernet.

Bi-directional Communication
The single parallel port supports HP PJL protocol for bi-directional network printer communication.

Versatile Administrative Program
A user-friendly configuration program that works with Windows 3.x, Windows 95 and Windows NT makes it possible to set up the print server in minutes.

Networking pre-sales team
08701 66 33 22

Model	D-Link DP-100	D-Link DP-101	D-Link DP-300	D-Link DP-301P
Network topology	10Base-2 (BNC) and 10Base-T (RJ-45)	10Base-T	10Base-T & 100Base-TX (RJ-45)	
Network op. systems supported	Windows NT, Windows 95, NetWare native NPS, TCP/IP, UNIX*, AppleTalk			
Network port	BNC and RJ-45	RJ-45		
Printer port	2 × parallel (25-way Female), 1 × serial (9-way Male)	1 Parallel	2 × parallel (25-way Female), 1 × serial (9-way Male)	1 Parallel
Package contents	Print server, manual, software, AC adaptor			
Dimensions (W × D × H)	190 × 117 × 31mm	TBA	190 × 117 × 31mm	140 × 115 × 27mm
Weight	0.65kg	TBA	0.65kg	0.17kg

*These print servers do not support Unix 5.42

DESCRIPTION	FOR USE WITH	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
D-Link DP-100 10Mbps Ethernet Print Server	10Base-2 & 10Base-T	87-33-23	81.28	84.40	83.56	82.72
D-Link DP-101 Ethernet Print Server (1 parallel port)	10Base-T	48-30-88	48.51	50.37	49.87	49.37
D-Link DP-300 Ethernet Print Server	10Base-T & 100Base-TX	89-44-29	96.01	99.69	98.69	97.71
D-Link DP-301P	10Base-T & 100Base-TX	46-62-42	83.81	87.03	86.16	85.30

OTHER ITEMS FOR NETWORK CABLES GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

A GUIDE TO PC CARDS

In the early 90s, the rapid growth of mobile computing drove the development of smaller, lighter and more portable tools for information processing. One of the most exciting of these innovations was PC Card technology. The power and versatility of PC Cards quickly made them standard equipment in mobile computers. The rapid development and worldwide adoption of PC Card technology has been due in large part to the standards efforts of the Personal Computer Memory Card International Association (PCMCIA).

IMPORTANT FEATURES OF PC CARD TECHNOLOGY

DMA

This standard allows cards to utilise Direct Memory Access technology directly in the hardware when matched wtih a corresponding host system.

LOW VOLTAGE OPERATION

This standard enables 3.3 and 5 volt operation. A physical keying mechanism for 3.3 volt cards protects them from being damaged in a 5 volt slot.

POWER MANAGEMENT

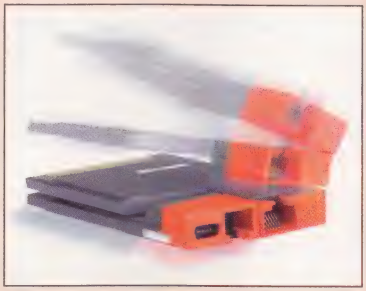
This standard provides a means to interface to APM (Advanced Power Management) through the Card Services Specification.

FAST ETHERNET

As organisations continue to expand already overburdened networks or replace existing, outdated ones, high-speed networking is becoming more a necessity than a choice. For organisations that have standardised on 10Mbps Ethernet, the architectural similarities between 10Mbps and 100Mbps Ethernet make Fast Ethernet the preferred high-speed networking technology. While 10Mbps Ethernet is the dominant LAN technology, the availability of 100Mbps technology is increasing as the product pricing gap between the two continues to narrow.

CARDBUS

Provides several compelling advantages over earlier 16-bit PC Card devices. For the first time, users of mobile systems will be able to experience the same high throughput enjoyed by users of PCI-based desktop systems. CardBus systems and peripherals enable use of demanding applications such as video conferencing and collaborative computing on a portable PC. The full 100Mbps performance of Fast Ethernet networks will no longer be the exclusive domain of full-sized workstations. In addition to these performance advances, CardBus maintains the traditional PC Card benefits of a small form factor and ease of installation, while further reducing power consumption in mobile systems.



PLUG AND PLAY

PC Cards can be inserted or removed while the system is on because power and ground contact pins are the longest contacts, ensuring that disconnect signals disengage first, preserving data integrity.

MULTIPLE FUNCTION PC CARDS

The Standard enables truly standardised multiple function PC-Cards, as well as Ethernet or Token Ring PC Cards can also combine some of the following features:

MODEM

56K modem technology enables modem users to realise connections at speeds up to 56Kbps through standard analogue telephone services by using Pulse Code Modulation (PCM).

GSM

In the new mobile information age, the cellular phone is delivering more than just voice calls. It is being coupled with portable PCs for sending and receiving information on corporate networks, the Internet and online services while on the go for increased productivity and efficiency. Just as wired telephone systems are advancing to accommodate the explosion of the information super-highway, mobile systems are evolving at a rapid pace to provide faster and more sophisticated communications capabilities. Global System for Mobile Communications (GSM) digital cellular technology promises to deliver the robust platform needed to operate today's high-bandwidth applications over mobile phone systems.

ISDN

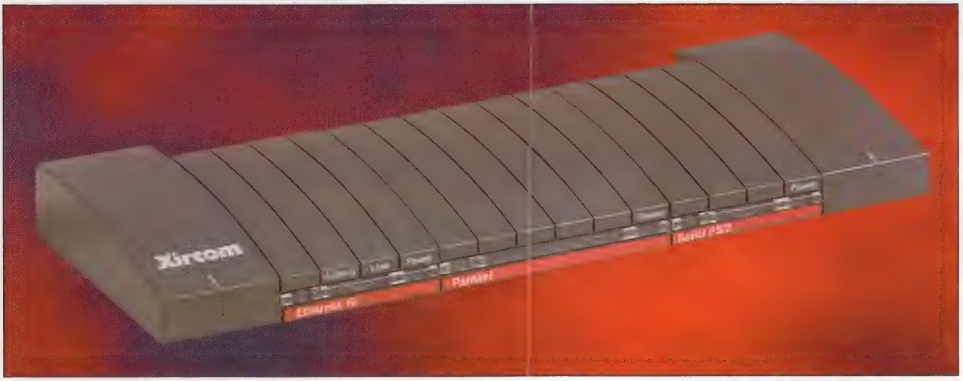
ISDN is an attractive technology because it can handle multiple types of information including voice, fax, data and video. The requirement for increased bandwidth for applications such as remote LAN and Internet access, the wide availability of standardised Euro-ISDN services and pricing that is competitive with analogue technologies is driving market demand.

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

USB PORT EXPANSION SYSTEM

Xircom...



The Xircom PortStation™

The Xircom PortStation Port Expansion System is the simplest way to connect your Windows computer to networks and multiple devices via a single USB connection. Whether it's a 56K modem, 10Mbps Ethernet, printer, keyboard handheld PDA cradle, scanner or other legacy or USB device, the PortStation system provides virtually unlimited expandability. Its sleek modular design features a series of interlocking modules that enable you to easily add devices that meet your needs now and in the future. Just mix-and-match and simply snap together PortStation modules as your needs grow. With the Xircom PortStation system, accessing networks and adding devices to your computer has never been easier.

- 10Mbps Ethernet.
- 56K Modem.
- Parallel port – for connecting printers.
- 2, PS/2 ports – for mouse and keyboard.
- 2, Serial (DB9) – PDA cradle or other.
- USB Hub (4 or 7 port) – USB peripherals.

Termination End Caps are required to make the unit function. These come as standard in the starter kits or are available seperately if buying individual modules. (Code No: 49-71-09)

Networking pre-sales team
08701 66 33 22

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Xircom PortStation USB Hub Server Kit*	49-32-68	76.79	80.34	79.54	78.74
Xircom PortStation Connection Starter Kit*	49-55-04	116.57	➧	120.74	119.53
Xircom PortStation Office Communications Starter Kit*	49-95-79	132.62	➧	137.36	135.99
Xircom PortStation Termination End Cap Kit*	49-71-09	44.92	47.00	46.53	46.06
Xircom PortStation USB Hub 4-Port	49-23-38	31.41	32.86	32.53	32.21
Xircom PortStation USB Hub 7-Port	49-50-09	44.92	47.00	46.53	46.06
Xircom PortStation Parallel DB-25 Module	49-08-93	24.65	25.79	25.53	25.28
Xircom PortStation Serial B-9 Module	49-39-36	58.88	61.60	60.98	60.37
Xircom PortStation Serial PS/2 Module	49-28-08	31.41	32.86	32.53	32.21
Xircom PortStation Ethernet 10 Module	49-37-14	49.76	52.06	51.54	51.02
Xircom PortStation Global Access Modem 56K Module	49-98-59	62.84	65.75	65.09	64.44

OTHER ITEMS
FOR NETWORK PRODUCT INDEX SEE PAGES 638, 639

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CARDBUS MODEM – PC CARDS/ISDN/GSM

Xircom...

The 32-bit **RealPort CardBus Modem 56-GlobalACCESS** combines a 56K modem, **GSM**, AMPS cellular and **ISDN** connectivity, in a single cable-free Integrated PC Card solution. GlobalACCESS features make it easy to connect to information from any location, anywhere in the world. This power-saving CardBus adaptor features BatterySave™ advanced power management, Wake-on-Ring,and 3.3-volt operation for longer battery life.

FEATURES:

- Uses standard RJ-11 telephone cards
- GlobalACCESS features including extensive country approvals and CountrySelect software, which automatically configures modem to local dialling conventions
- GSM 900, 1800, 1900, PCS 1900 and AMPS cellular capable via a variety of popular mobile phones
- Supports wide range of network operating systems including Windows 95/98 and Windows NT
- Wake-on Ring reduces power consumption
- Supports modem speeds up to 56Kbps using either V.90 or K56flex standards



Global ACCESS

49-17-78

Model	RealPort CardBus Modem 56-GlobalACCESS
CCITT datacomm standards	V90, V34, V32terbo, V32, V22, V23
Datacomm speed	300-56,000bps
Host bus type	Cardbus – 32-bit
Error correction	V42/MNP levels 2-4
Data compression	V42bis (4:1) or MNP5 (2:1)
Command language	Hayes, Microcom compatible AT commands
CCITT fax standards	V29, V27, V17
Fax compatibility	Group 3, EIA/TIA; Class 1 and Class 2
GSM/ISDN compatibility	Yes
Warranty	Limited lifetime hardware, 2 years software

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Xircom RealPort CardBus Modem – 56K GlobalACCESS PC Card	49-17-78	102.55	➧	105.42	104.37
Xircom RealPort CardBus Modem – 56K GlobalACCESS PC Card (**5 pack**)	49-31-01	497.21	➧	511.13	506.02
Xircom RealPort 2 Modem 56 GlobalACCESS	44-17-58	103.01	➧	105.89	104.83
Xircom RealPort 2 Modem 56 GlobalACCESS (**5 pack**)	44-30-86	494.07	➧	507.90	502.82
Xircom CardBus modem 56 Win Global	44-53-44	90.96	95.16	94.21	93.27
Xircom CardBus modem 56 Win Global (**5 pack**)	44-94-75	425.23	➧	437.13	432.76
Xircom RealPort Modem 56K Integrated PC Card	48-95-28	70.48	73.19	72.46	71.73
Xircom RealPort Modem 56K Integrated PC Card (**5 pack**)	48-95-35	344.77	➧	354.42	350.88
Xircom RealPort 56K GlobalACCESS PC Card	46-28-99	102.55	➧	105.42	104.37
Xircom RealPort 56K GlobalACCESS PC Card (**5 pack**)	46-67-61	497.21	➧	511.13	506.02

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FAX MODEMS – PC CARD/ISDN/GSM

Xircom...



Global ACCESS

The **Realport Integrated PC Cards** provide integrated connectors directly into the cards so that there are no cables to lose or moving parts to break.

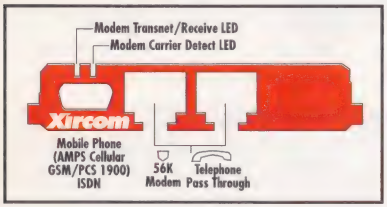
The **RealPort Modem 56** provides high-speed 56k modem functionality for notebooks. This product is ideal for users who are looking for a 56k modem and have no GSM and ISDN needs.

The **Realport Modem 56-GlobalACCESS PC Card** offers mobile users high-speed 56K modem, GSM, AMPS cellular and is ISDN ready.

- V.90 Supporting modem speeds up to 56K.
- ISDN capable for high-speed communications.
- LEDs for status information at a glance.
- GlobalAccess features include extensive country approvals and CountrySelect software.
- GSM 900, 1800, 1900, DCS 1800, PCS 1900 and AMPS cellular-compatible.

The **RealPort ISDN Connection Kit** gives ISDN functionality to the Xircom RealPort Global Access Modems or transforms them into a '3-in-one' soilution (ie. Modem+GSM+ISDN)

- High speed digital communcations up to 128Kbps.



Model	Realport Modem 56-GlobalACCESS PC Card	Realport 56 PC Card
CCITT datacomm standards	V90, V34, V32, V32bis, V32terbo, V22bis, V23	
Datacomm speed	300-56,000bps	
Error correction	V42/MNP levels 2-4	
Data compression	V42bis; MNP5	
Command language	Hayes, Microcom compatible AT commands	
CCITT fax standards	V29, V27, V17	
Fax Compatibility	Group 3, 14,400bps	
GSM & ISDN Compatibility	Yes	No
Warranty	Limited lifetime hardware, 2 years software	

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Xircom Realport GSM connection kit for Ericsson 688/788	46-29-09	65.53	68.56	67.87	67.20
Xircom Realport GSM connection kit for Nokia 3110/8110	46-29-16	65.53	68.56	67.87	67.20
Xircom Realport GSM Connection Kit for Nokia 5110/6110	49-17-90	65.53	68.56	67.87	67.20
Xircom Realport GSM Connection Kit for Siemens S10	49-53-60	65.53	68.56	67.87	67.20
Xircom Realport ISDN Connection Kit	49-17-81	96.65	◆	100.11	99.11
Xircom RealPort ISDN Connection kit – **20 Pack**	49-23-25	1874.61	◆	◆	1922.23
International Modem Adaptor Kit	44-47-14	22.27	25.00	24.25	23.52

OTHER ITEMS
FOR AN EXTENDED REALPORT RANGE & OTHER XIRCOM PRODUCTS SEE PAGES 716–723

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PCMCIA ETHERNET ADAPTOR & FAX/DATA MODEM Xircom...

RealPort Integrated PC Card LAN solution offers mobile users high-performance 10Mbps and 100Mbps Ethernet connectivity for the most reliable access to information while in the office.

FEATURES:

- Integrated Ethernet LAN connector provides reliable cable-free connectivity.
- Uses standard RJ-45 Ethernet cords.
- Forward and backward driver compatability.
- LEDs for status information at a glance.
- HotSwap support makes it easy to exchange PC Cards without reloading card drivers.
- Connects notebooks to either 10Mbps or 100Mbps Ethernet networks.

RealPort Integrated PC Card LAN + Modem solution offers mobile users 10Mbps and 100Mbps Ethernet LAN, 56K modem, GSM and AMPS cellular functionality in a single solution. GlobalACCESS features make it easy to connect to information from any location, anywhere in the world.

FEATURES:

- Choice of 10Mbps only or auto-sensing 10/100Mbps port.
- Uses standard RJ-45 Ethernet and RJ-11 telephone cords.
- Forward and backward driver compatibility.
- LEDs for status information at a glance.

Computer TELEPHONY EDITORS' CHOICE



- Digital Shield protects modem from high-current digital phone lines.
- HotSwap support makes it easy to exchange PC Cards without reloading card drivers.
- GlobalACCESS features including extensive country approvals and CountrySelect software, which automatically configures modem to local dialling conventions.
- GSM 900, 1800, 1900, DCS 1800, PCS 1900 and AMPS cellular-capable via a variety of popular mobile phones.



Global ACCESS

Model	Xircom RealPort		
	Ethernet 10/100Mbps	Ethernet 10Mbps + Modem	Ethernet 10/100Mbps + Modem
Network connection	10/100Mbps RJ-45	10Mbps RJ-45	10/100Mbps RJ-45
Datacomm speed	V.90 (56Kbps)		
Data compression	V42/MNP Levels 2-4		
GSM speed	Up to 9,600bps		
Supported cellular handsets	Most major handsets, see the Xircom Web Site at www.xircom.com		
Warranty	Limited lifetime hardware, 2 year software		

Networking pre-sales team 08701 66 33 22

FOR GSM KITS SEE PAGE 717

DESCRIPTION	CONNECTOR TYPE	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Xircom RealPort 2 Ethernet 10/100	C	44-22-63	93.51	97.83	96.85	95.88	✂
Xircom RealPort 2 Ethernet 10/100 (**5pk**)	C	44-49-47	434.24	◗	449.77	445.27	✂
Xircom RealPort Ethernet 10/100Mbps	C	46-39-91	82.38	85.54	84.68	83.84	
Xircom RealPort Ethernet 10/100Mbps (**5pk**)	C	49-07-51	379.82	◗	390.45	386.55	
Xircom RealPort Ethernet 10Mbps + Modem 56K	C	46-39-84	134.94	◗	138.72	137.33	
Xircom RealPort Ethernet 10Mbps + Modem 56K (**5pk**)	C	46-40-62	619.38	◗	636.72	630.35	
Xircom RealPort Ethernet 10/100 + Modem 56K	C	45-16-42	174.78	◗	179.67	177.87	
Xircom RealPort Ethernet 10/100 + Modem 56K (**5pk**)	C	45-16-59	803.17	◗	825.65	817.39	
Xircom RealPort ISDN connection kit	—	49-17-81	96.65	◗	100.11	99.11	✂

OTHER ITEMS

FOR NETWORK CABLE GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CARDBUS ETHERNET ADAPTORS

Xircom...



What is CardBus?
CardBus devices combine the best features of 16-bit PC Cards with the performance of 32-bit PCI adaptors. CardBus delivers increased throughput and functionality through 32-bit data transfers, bus mastering (a technique which allows data to be transmitted by the adaptor without interrupting the host processor), and other PCI features, while maintaining backward compatibility with 16-bit PC Card adaptors. Native CardBus adaptors deliver significant advantages by requiring less power and providing higher data throughput, while maintaining a small form factor, robust operation and ease-of-use.

RealPort CardBus Ethernet 10/100
RealPort Integrated PC Card LAN solutions offer mobile users high-performance 10Mbps and 100Mbps Ethernet connectivity for the most reliable access to information while in the office.

FEATURES:
- Integrated Ethernet LAN connector provides reliable cable-free connectivity.
- Uses standard RJ-45 Ethernet cords.
- 32-bit CardBus interface.
- Forward and backward drive compatibility.
- Connects notebooks to either 10Mbps or 100Mbps Ethernet networks.

RealPort CardBus Ethernet 10/100+ Modem
RealPort Integrated PC Card LAN+ Modem solutions offer mobile users 10Mbps and 100Mbps Ethernet LAN, 56K modem, GSM and AMPS cellular functionality in a single solution. GlobalACCESS features make it easy to connect to information from any location, anywhere in the world.

FEATURES:
- Integrated Ethernet LAN, modem and telephone handset pass-through connectors provide reliable cable-free connectivity.
- Uses standard RJ-45 Ethernet and RJ-11 telephone cords.
- 32-bit CardBus interface.
- GlobalACCESS features including extensive country approvals and CountrySelect software, which automatically configures modem to local dialing conventions.
- Connects notebooks to either 10Mbps or 100Mbps Ethernet networks.
- Supports modem speeds up to 56Kbps.

FOR GSM KITS SEE PAGE 717

Model	RealPort CardBus Ethernet 10/100Mbps	RealPort CardBus Ethernet 10/100Mbps+Modem
Host Bus type	CardBus	
Network ports	10/100Mbps (RJ-45)	
Datacomm speed	N/A	V90 (56Kbps)
Network operating systems	Novell NetWare, Microsoft Win 95, 98, NT, 3.x, LAN Manager, Artisoft LANtastic, Banyan Vines, Digital Pathworks and OS/2	
Warranty	Limited lifetime hardware, 2 years software	

Networking pre-sales team 08701 66 33 22

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Xircom RealPort2 CardBus Ethernet 10/100	44-17-19	93.51	97.83	96.85	95.88
Xircom RealPort2 CardBus Ethernet 10/100 (**5pk**)	44-70-21	434.24	◗	449.77	445.27
RealPort CardBus Ethernet 10/100Mbps only	47-26-07	82.02	85.17	84.32	83.48
RealPort CardBus Ethernet 10/100Mbps only (**5pk**)	47-26-14	379.82	◗	390.45	386.55
RealPort CardBus 10/100Mbps+ 56K Modem	24-41-03	174.78	◗	179.67	177.87
RealPort CardBus 10/100Mbps+56K Modem (**5pk**)	47-25-97	803.17	◗	825.65	817.39
RealPort ISDN Connection Kit	49-17-81	96.65	◗	100.11	99.11

OTHER ITEMS FOR PC CARD GUIDE SEE PAGE 715

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FAX MODEMS – PC CARD

Xircom...

56k Modem with GSM Support

CreditCard Modem 56 GlobalACCESS
high-speed 56Kbps data, 14.4Kbps fax modem

The CreditCard Modem 56 is a versatile communications solution for accessing information from any location in the world. Features include Country Select software which automatically configures the modem to local dialing conventions when travelling from country to country.

- Digital Shield™ safeguards the modem from high-current PBXs.
- New ISDN Upgrade Kit.
- GSM upgradable: an optional GSM Connection Kit™ provides wireless WAN data and fax communication using the most popular GSM handsets. Visit the Xircom Website for a list of supported handsets.
- CountrySelect utility and multi-lingual user guide included.



Global ACCESS

Send and receive data

Fax, transfer files, e-mail or access the Internet over a digital GSM link at speeds of up to 9,600bps. **Nokia 5110/6110 GSM Kit. Cat 49-53-67.**

Model	Xicom Credit Card Modem 56 Global Access
CCITT datacoms standards	V90, V34, V.FC. V32bis, V32, V23, V22bis, V22, V21
Prop datacomm standards	Release 2.1; type II or higher
Datacomm speeds	300-56,000bps
Error correction	V42 MNP Levels 2-4
Data compression	V42 bis, MNP5
Command language	Hayes Microcom compatible AT commands
Data operating modes	Autosynchronous
PCMCIA compatibility	PCMCIA Release 2.1 type II
CCITT fax standard/command set	V17, V29, V27ter
Fax compatibility	Group III, 14,400bps
Line types	Dial-up PSTN only
Package contents	Modem, manual, software, connection cable, UK, Holland & Belgium Adaptors
Dimensions	86×54×5mm Weight: 42.1g
Approval	CE
Warranty	Limited Lifetime Hardware, 2 years software

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Xircom Credit Card Modem56 Global Access with GSM Support	45-13-12	97.76	◗	100.50	99.50	
Xircom Credit Card ISDN Connection Kit	49-32-26	96.65	◗	100.11	99.11	✂
Xircom Credit Card ISDN Connection Kit – **20 pack**	49-54-79	1874.61	◗	◗	1922.23	✂
Xircom GSM Connection Kit Ericsson 688, 788	41-62-61	65.53	68.56	67.87	67.20	✂
Xircom GSM Connection Kit Nokia 8110, 3110	44-79-24	65.53	68.56	67.87	67.20	✂
Xircom GSM Connection Kit Nokia 2110, 2110i	44-79-31	65.53	68.56	67.87	67.20	✂
Xircom GSM Connection Kit for Nokia 5110/6110	49-53-67	65.53	68.56	67.87	67.20	✂
Xircom Replacement Cable for CM-56G	49-55-42	15.09	16.94	16.43	15.94	
ISDN Connection Kit	49-32-26	96.65	◗	100.11	99.11	✂

OTHER ITEMS
FOR PORTABLE PCs & ACCESSORIES INDEX SEE PAGES 40–41

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PCMCIA ETHERNET ADAPTORS

Xircom...



The **CE3-10** (BT or Combo) PCMCIA adaptor can be purchased today for use with standard 10Mbps Ethernet networks.

FEATURES:

- Full duplex support doubles throughput to 20Mbps.
- Advanced, look-ahead pipelining.
- Integrated power management .
- Hot swap support for user-friendly card removal and re-insertion while preserving system status.
- Windows and DOS-based installation program.
- Lifetime warranty.

The **CE3-100BTX** is the 100Mbps ready product that is 10/100 switchable.

- 100Mbps connectivity.
- Auto-negotiation of 10Mbps or 100Mbps.
- SNMP network management agent included.
- Full site of network driver support.
- Cardbus+combo versions are also available.

Networking pre-sales team 08701 66 33 22

Connector B



BNC Connector

Connector C



RJ-45 Connector

Model	CE3-100BTX	CBE2-100BTX	CE3-100BC	CE3-10BT	CE3-10BC
Host Bus type	PCMCIA	32-bit Cardbus	PCMCIA		
Network ports	RJ-45				RJ-45 BNC
Network operating systems supported	Novell NetWare, Windows NT, WIN 95, 3.1x, MS LAN Manager, Artisoft LANtastic, Banyan Vines & DEC Pathworks				
Warranty	Off-site lifetime warranty				

DESCRIPTION	CONNECTOR TYPE	PART NO	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Xircom c/c 100Base-TX Adaptor	C	CE3-100BTX	83-32-15	82.02	85.17	84.32	83.48
Xircom CardBus Ethernet 10/100	C	CBE2-100BTX	84-72-70	82.02	85.17	84.32	83.48
Xircom c/c 10/100BC Combo Adaptor	C/B	CE3-100BC	49-31-75	109.41	◗	112.47	111.35
Xircom c/c 10Base-T Adaptor	C	CE3-10BT	83-32-22	72.02	74.78	74.03	73.29
Xircom c/c Combo Adaptor	C/B	CE3-10BC	83-32-39	100.33	◗	103.14	102.11

OTHER ITEMS FOR NETWORK CABLES SEE PAGES 599–616

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PCMCIA ETHERNET ADAPTOR & FAX/DATA MODEM

Xircom...

The **CreditCard Ethernet 10/100 + Modem 56**™ is the ideal multi-function solution for portable PC users. A member of Xircom's award-winning family of Fast Ethernet products, it combines a 10/100Mbps Ethernet adaptor and high-speed 56K modem in a single PC Card.



FEATURES AND BENEFITS:

- **Auto-senses 10Mbps or 100Mbps networks**
  Provides seamless operation on either 10Mbps or 100Mbps Ethernet networks.
- **Full-duplex operation**
  Allows data to be sent and received simultaneously, doubling the effective throughput on 10Mbps full-duplex Ethernet networks.
- **GlobalACCESS.** One card for worldwide use.
- **LAN and modem LEDs**
  Provide status information at a glance.
- **SNMP network management**
  Allows the portable PC to be managed using SNMP-based network management software.
- **Easy installation. Plug & Play.**
  Installation program automatically configures notebook, modem, and network operating system.
- **CardBus** version available.





Model	CEM-56-100BTX	CBEM56G-100BTX
CCITT datacomm standards	V90, V34, V.32 Terbo, V32bis, V.32, V.22bis, V.22, V.23	
Datacomm speed	1200–56,000bps	
Error correction	V42, MNP Levels 2-4	
Data compression	V42bis, MNP Level 5	
CCITT fax std./Command set	V.17, V.29, V.27ter	
Fax compatibility	Group 3; 300-14,400bps	
Network Adaptor		
ISDN Kit	49-32-26	49-95-60
Host bus type	PCMCIA Type II 2.0 & 2.1	CardBus
Package contents	Modem/adaptor, Delrina software. Country select software, CompuServe trial offer, drivers, media modules. RJ11 cable	
Warranty	Limited lifetime warranty	

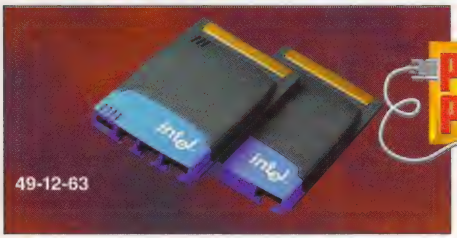
Network Operating Systems:
Supports all popular network operating systems including Novell NetWare, MS-Windows NT, Windows 95, Windows 3.X, MS LAN Manager, Artisof LANtastic, Banyon Vines and DEC Pathworks.

DESCRIPTION	CONNECTOR TYPE	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
CEM-56-100BTX Global Access Ethernet & Modem 56	C	89-45-77	156.77	◗	162.38	160.76	
CEM-56-100BTX Global Access Ethernet & Modem 56 (**6 pack**)	C	89-45-84	866.41	◗	897.40	888.43	
CEM-56-100BC Global Access Ethernet 10/100+Modem with GSM support	C/B	46-08-91	173.17	◗	179.36	177.57	✂
CEM ISDN Connection Kit	–	49-32-26	96.65	◗	100.11	99.11	✂
CBEM56G-100BTX CardBus Ethernet + Modem	C	49-70-85	154.56	◗	158.89	157.30	
CBEM ISDN Connection Kit	–	49-95-60	96.65	◗	100.11	99.11	✂
CABLES FOR XIRCOM CREDITCARD ETHERNET ADAPTORS INCLUDING, CE2, CE3, CEM28 AND CEM33							
BNC Cable (Cable-Eth211)	B	81-02-45	44.85	50.34	48.83	47.36	✂
RJ-45 Cable (Cable-Eth111)	C	81-02-52	14.83	16.64	16.14	15.66	✂
CABLE FOR XIRCOM ETHERNET 10/100 ADAPTORS INCLUDING CARDBUS AND CEM56							
RJ-45 Cable for 10/100 Ethernet Adaptors	C	87-07-42	14.47	16.24	15.75	15.28	✂

OTHER ITEMS FOR NETWORK CABLES SEE PAGES 599–616

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ETHERNET CARDBUS & PCMCIA ADAPTORS/MODEMS intel





These high-performance, 32-bit CardBus adaptors combine 10/100 LAN and V.90 56K modem connectivity in a single, easy-to-use card. Based on the new Intel 82559 controller, they deliver true 100Mbps LAN performance, advanced management capabilities and longer battery life.

- For Ethernet/Fast Ethernet LANs, all network sizes.
- Eases IT administration and reduces support costs with advanced management capabilities such as Wired for Management (WfM) 2.0 support.
- 10/100 auto-negotiation.
- Intel PROSet utility for easy set-up.

Designed to solve real-world challenges of mobile PC computing, the **RealPort Integrated PC Card** functionality built into Intel's latest mobile cards improves portable networking by addressing two of the biggest problems faced by notebook users – lost or broken dongles and broken pop-out jacks.

- Integrated Ethernet LAN, modem and telephone handset pass-through connectors.
- 32-bit CardBus interface.
- Connects notebooks to either 10Mbps or 100Mbps Ethernet networks.
- Supports modem speeds up to 56Kbps (Optional).

Intel's EtherExpress™ PRO/100 Mobile Adaptors bring all the performance benefits of high bandwidth networking to your portable PC. Available in **PC-Card (PCMCIA)** and **CardBus** versions, the EtherExpress PRO/100 Mobile Adaptor allows you to take full advantage of Fast Ethernet networks or plug into legacy 10Mbps segments.

- 16-bit PC Card and 32-bit CardBus versions available.
- Auto-senses 10 or 100Mbps operation.
- Both versions are available with or without an in-built modem.
- Limited lifetime warranty.

The **EtherExpress PRO/100 Mobile Adaptors**, which provide 10BASE-T and 100BASE-TX connectivity fit any type II PCMCIA slot and are available in 16-bit PC Card and 32-bit Card Bus versions. Offering a 16-bit card fulfils the large installed base of 16-bit Pentium processor-based machines, giving mobile users full access to Fast Ethernet networks when using their portable PCs. As more demanding applications become available for portable PCs, the performance of a 32-bit architecture will be necessary to take advantage of them, 32-bit CardBus adptors will fulfil the growing demand for networking these devices.

PC Card – Gives you the flexibility of 10/100 connectivity for your PCs using a 16-bit bus standard, in the convenient PCMCIA form factor.

CardBus – Provides 32-bit functionality in a PCMCIA form factor for your CardBus equipped portable PCs. CardBus is based on PCI technology and allows you to use the full power of your pentium processor based machines for superior performance.

DESCRIPTION	CONNECTOR TYPE	FOR USE WITH	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
EtherExpress PRO/100 Mobile PC Card Adaptor	C	PC Card 16-bit	87-02-54	85.48	88.76	87.87	86.99
EtherExpress Pro/100 LAN+56K Modem Cardbus	C	CardBus 32-bit	49-22-77	146.49	⏵	150.59	149.08
Intel RealPort CardBus 10/100	C	CardBus 32-bit	49-12-63	90.82	94.31	93.37	92.43
Intel RealPort CardBus 10/100 + 56K Modem	C	CardBus 32-bit	49-08-52	204.31	⏵	210.03	207.93

OTHER ITEMS
FOR INTEL HUBS SEE PAGES 796, 707
FOR XIRCOM'S REALPORT RANGE SEE PAGES 664–667

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PCMCIA ETHERNET ADAPTOR & FAX MODEM

FREE – 2m modem cable reel – one free cable reel per modem purchased. While stocks last.

Gold Card NetGlobal 56K + 10/100MB CardBus is the latest card from Psion Dacom and offers a versatile platform as a global modem with Fast Ethernet connections. It is also GSM and ISDN upgradable.

- Simultaneous modem and Ethernet operation.
- Full duplex operation allows burst data transfer rate at 200Mbps.
- High-speed Global modem – 56K, V.90.
- Upgradable to GSM and ISDN.
- Supports all major mobile phones including Nokia and Ericsson.

The **Psion Dacom Gold Card NetGlobal 56K + 10Mb** combines a global modem with Ethernet access and is both GSM and ISDN upgradable.

- Simultaneous Modem and Ethernet operation.
- 56K V.90 ready global modem – GSM and ISDN upgradable.
- Includes EasySwitch country switching software.

Gold Card NetGlobal CardBus 10/100Mbps is a Fast Ethernet card that maximises performance by utilising CardBus sockets fitted to notebooks.

- RJ-45 10/100 Base-TX port type.
- 32-bit CardBus Master.
- N-Way auto-negotiation, full duplex.
- Lifetime warranty.

Networking pre-sales team 08701 66 33 22

46-27-65



Gold Card NetGlobal 10Mbps provides a high quality 10Base-T Ethernet connection.

- RJ-45 10Base-T port type.
- Lifetime warranty.

Gold Card NetGlobal 10/100Mbps supports Fast Ethernet network connections.

- Dual speed 10/100Mbps with RJ-45 connector.
- Full duplex operation.
- Lifetime warranty.

Model	Gold Card NetGlobal 56K + 10Mbps	Gold Card NetGlobal 56K + 10/100Mbps
Network connection	10Mbps (RJ-45)	10/100Mbps (RJ-45)
Modem Specification	V.90 (56Kbps)	
Error Correction	V.42. MNP2–4, MNP10	
Data compression	V.42bis MNP5	
Fax specification	V.17. (14,00bps) V.29 (9,600bps)	
Software Included	Installation programme, country switching software, fax software, data communications software, online information/internet access trial software, point enabler, utilities disk	
Warranty	Lifetime	

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Gold Card NetGlobal 56K + 10/100Mbps CardBus	49-17-66	184.47	➧	189.63	187.73
2 × 56k 10/100 Cardbus + Free Modem Adaptor Kit	06-36-84	369.65	➧	380.00	376.20
Gold Card NetGlobal 56K + 10Mbps	46-27-65	156.91	➧	161.30	159.69
Gold Card NetGlobal 10Mbps PC Card	46-27-72	47.00	48.80	48.31	47.83
Gold Card NetGlobal 10/100Mbps PC Card	46-27-89	64.20	66.66	65.99	65.33
Gold Card NetGlobal 10/100Mbps CardBus	46-27-96	64.20	66.66	65.99	65.33

OTHER ITEMS FOR GSM UPGRADE KITS SEE PAGE 729

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FAX MODEMS – PCMCIA



Gold Card is Europe's No. 1 PC Card fax modem.
Gold Card Global gives you the latest technology, to provide a complete package for mobile communications, with advanced GSM upgradability.

FEATURES:
- 56Kbps Rockwell/Lucent K56flex.
- Flash upgradable to V.90 ITU standard.
- Globally approved.
- Compatible with telephone networks worldwide.
- GSM upgradable.
- On-board DAA with country switching software.
- Supplied with fax data comms s/w, On-line/ Internet access trial s/w, Country switching s/w and utilities disk.

OK NOKIA

FREE – 2m modem cable reel – one free cable reel per modem purchased. While stocks last.

Model	Gold Card Global V.34	Gold Card Global 56K+Fax
CCITT datacomms standards	V34, V.FC, V32bis	V90, V34, V.FC, V32bis
Prop. datacomm std.	Release 2.1; Type II or higher	
Datacomm speeds	300–33,600bps	300–56,000bps
Error correction	V42 MNP2-4, MNP10	
Data compression	V42bis, MNP5	
Command language	Extended Hayes AT command set	
Data operating modes	Autosynchronous	
PCMCIA compatibility	PCMCIA Release 2.0 & 2.1	
CCITT fax standard/ command set	V17, V29, V27ter	
Fax compatibility	Group III, 14,400bps	
Line types	Dial-up PSTN only	
Package contents	Modem, manual, software	
Warranty	Lifetime warranty	

CONNECT with Rockwell

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Gold Card Global 33.6 PC Card Modem	84-97-59	116.96	▶	120.23	119.03
Gold Card Global 56K+Fax PC Card Modem	87-79-27	122.75	▶	126.19	124.93
Gold Card Global 56K+Fax PC Card Modem **(2 pack) + FREE International Modem Adaptor Kit**	06-66-35	247.89	▶	252.00	250.49
NetGlobal 56K+10/100 CardBus	49-17-66	184.47	▶	189.63	187.73
NetGlobal 56K+10/100 CardBus **(2 pack) + Free International Modem Adaptor Kit**	06-36-84	369.65	▶	380.00	376.20
Gold Card Classic replacement cable	84-98-83	43.69	45.71	45.25	44.80
Gold Card Global replacement cable	67-32-93	11.60	12.14	12.02	11.90
International modem adaptor kit	44-47-14	22.27	25.00	24.25	23.52

OTHER ITEMS FOR GSM UPGRADE KITS FOR BOTH CLASSIC AND GLOBAL CARDS SEE PAGE 728

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FAX MODEMS – GSM

Gold Card GSM for Mobile Data
Gold Card GSM provides mobile data connections over GSM or PCS networks anywhere in the world, simply by connecting a compatible mobile phone. Ideal whether you want to transfer data, collect e-mail or send/receive faxes.

Investment Protection
Gold Card GSM is sophisticated enough to satisfy your needs today and in the future, thanks to its 2MB of flash memory. As new mobile data facilities are added, such as Short Message Service (SMS) and Phonebook Management.

www.psiondacom.com

FEATURES:
- Manufactured under an ISO 9002 quality management system.
- Durable gold plated casing and robust connectors.

FREE – 2m modem cable reel – one free cable reel per modem purchased. While stocks last.



Model	Psion Dacom Gold Card GSM Card
Datacomm speeds	9,600bps
Error correction	RLP
Data compression	V42bis
Command language	Licensed Hayes Escape Sequence and compatible AT command set
Data operating modes	Asynchronous
PCMCIA compatibility	PCMCIA Release 2.1 Type II
Fax compatibility	Group III (9,600bps)
ISDN	ISDN V110 (9,600bps) over GSM
Package contents	Modem, cable, communications software, utilities disk
Warranty	Lifetime warranty*

* FREE Technical Support

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Gold Card GSM Only for Nokia 2110	44-26-75	115.25		119.37	118.18	✂
Gold Card GSM Only for Nokia 3110/8110	44-26-82	115.25		119.37	118.18	✂
Gold Card GSM Only for Nokia 6110	45-10-75	115.25		119.37	118.18	
Gold Card GSM Only for Motorola Microtac and Startac	46-09-49	115.25		119.37	118.18	✂
Gold Card GSM Only for Nokia 2110 **(2 pack) + FREE Int. Modem Adaptor Kit**	06-53-64	248.61		257.50	254.93	✂
Gold Card GSM only for Nokia 3110/8110 **(2 pack) + FREE Int. Modem Adaptor Kit**	06-76-59	248.61		257.50	254.93	✂
Gold Card GSM only for Nokia 6110 **(2 pack) + FREE Int. Modem Adaptor Kit**	06-17-85	256.50		257.50	257.30	
International Modem Adaptor Kit	44-47-14	22.27	25.00	24.25	23.52	
Modem Cable Reel	49-18-06	7.60	8.49	8.25	7.99	

OTHER ITEMS
FOR PORTABLE PCs & ACCESSORIES INDEX SEE PAGES 40–41
FOR GOLD CARD GLOBAL ISDN CARDS & UPGRADES SEE PAGE 728

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FAX MODEMS – ISDN



The **Psion Dacom Gold Card Global 56K + ISDN** (56K + Fax modem and ISDN Upgrade) and **Gold card ISDN** (ISDN only PC Card), both benefit from GSM connectivity with upgrade kits for leading handsets such as Nokia, Ericsson and Motorola. (See page 643 for listings).

Gold Card ISDN utilises DIVA ISDN technology developed in partnership with Eicon Technology. Gold Card ISDN products allow customers to use the two 64kbps data channels either separately or aggregated together to give a data speed of up to 128kbps.

FREE – 2m modem cable reel – one free cable reel per modem purchased. While stocks last.

Model	Gold Card Global 56K+ISDN Upgrade	Gold Card ISDN/GSM Ready
CCIT standards	V.90, V.34, V.32bis, V.32, V.22	N/A
Datacomm speeds	300-128,000bps	
Data Compression	V.42bis, MNP5	
Command Language	Licensed Hayes Escape Sequende and compatible AT Command Set	
Data operating modes	PPP Asynchronous to Synchronous	
PCMCIA compatibility	PCMCIA Type II	
Fax compatibility	Group III (9,600bps)	
ISDN Specification	ISDN Port S/T Interface, 8MB flash memory, BOD, Voice communications with Mini Headset (supplied)	
Package contents	Modem, Communications software, utilities disk, mini headset	
Warranty	Lifetime warranty	
Support	FREE support	

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Psion Dacom Gold Card Global 56K+ ISDN Upgrade	45-13-50	220.03	▶	226.19	223.93
Psion Dacom Gold Card ISDN	45-13-67	178.34	▶	183.33	181.50
Psion Dacom Gold Card ISDN upgrade (for ISDN Ready Gold Cards)	45-13-74	113.58	▶	116.76	115.59

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

GSM UPGRADE KITS

Psion Dacom range of GSM upgrade kits to enhance both the classic and the Gold Card Global range of PC cards.

Keeps you in touch when you're on the move. Providing a data and fax connection anywhere in the world with a GSM or PCS network.

GSM Upgrade Specification

- GSM fax and data anywhere in the world with a GSM or PCS network.
- Data and fax transfer at 9600bps. Upgradeable to 14,400bps when this becomes available.
- Manufactured with the co-operation and support of the major phone manufacturers including Nokia, Ericsson and Motorola.
- Modem compatible GSM command set.
- Multi-handset capability.



*See page 728 for Gold Card ISDN upgrade kit.

All Psion Dacom Gold Cards have a Lifetime Warranty and Unlimited Technical Support

FREE – 2m modem cable reel – one free cable reel per modem purchased. While stocks last.

PSION DACOM

DESCRIPTION	COMPATIBILITY	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
GSM UPGRADE KIT FOR 56K AND 33.6 GOLD CARD GLOBAL RANGE						
Nokia 2110	Gold Card Global	85-52-31	75.09	77.97	77.19	76.42
Nokia 8110, 3110	Gold Card Global	85-52-48	75.09	77.97	77.19	76.42
Nokia 6110, 5110	Gold Card Global	45-10-68	75.67	78.57	77.78	77.01
Panasonic G350, G400, G500	Gold Card Global	85-52-55	75.67	78.57	77.78	77.01
Ericsson 300 series	Gold Card Global	46-09-18	75.67	78.57	77.78	77.01
Ericsson 600/700 series	Gold Card Global	46-09-25	75.09	77.97	77.19	76.42
Motorola Microtac and Startac	Gold Card Global	46-09-32	75.67	78.57	77.78	77.01

OTHER ITEMS
FOR A GOLD CARD GLOBAL PCMICA CARD SEE PAGE 727

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FAX MODEM – PC CARDS



Experience the Internet with a **3Com U.S. Robotics® Winmodem PC Card.** It's made to deliver fast V.90 56K downloads with your notebook running Windows 98 or 95.

FEATURES:

- High speed downloads with the V.90 56K standard, universal compatibility with V90 x2 technology and V.34.
- Maximised for Windows 95 and 98.
- Software Upgradable.
- Intelligent Auto Install.
- Hot Swapping.
- Data/Fax Software.

3Com premier mail order partner

The World Wide Web offers businesses and individuals a range of resources no one would have imagined a few years ago. To see the detailed graphics and lifelike motion built into today's advanced sites and to hear near-CD quality sound, you need the fastest downloads possible over analogue phone lines. Also a 3Com U.S. Robotics 56K Winmodem PC Card gives you those faster downloads, plus maximized performance if you've standardised on the Windows operating system – you fully experience the Internet and everything it offers.

Faster Internet Access
Enjoy the full Internet experience with rich graphics, real-time audio and video, and intense game action. With the v.90 56K you not only enjoy faster downloads, you also enjoy the benefits of getting on and offline faster so you're more productive and you spend less on phone costs.

Quick and Easy to Install
Simply slide your PC Card into your notebook running Windows 95, 98 or 2000 and with just a few clicks, your modem 'introduces' itself to your computer without any effort from you.

Easy to Upgrade
Your PC Card is software upgradable to protect your investment. Making basic performance enhancements is as simple as copying a file to your hard drive.

Model	3Com USR 56K Winmodem PC Card	3Com Megahertz 56K X-JACK
CCITT datacomm standards	V.90, V34, V32bis, V32, V22bis, V22, V23, V21	
Datacomm speed	300–56,000bps	
Error correction	V42 MNP Levels 2-4	
Data compression	V42 & V42 bis, MNP 2–5	
Command language	Industry standard AT command set	
Data operating modes	Asynchronous	
PCMCIA compatibility	PCMCIA Version 2.0, Type II & III	
CCITT fax standards/ command set	Group III Class 1, V17, V29, V27ter	
Fax compatibility	Group 3; 14,400bps	
Line types	Dial-up PSTN only	
Package contents	Modem, cables, manual, QuickLink II, fax & comms software, FREE Internet trials	
Warranty	Lifetime warranty	

3Com U.S. Robotics

	DESCRIPTION	HIGHEST CCITT STANDARD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	3Com USR 56K Winmodem PC Card X-JACK	V90 + Fax	49-56-25	52.24	54.25	53.71	53.17
	International modem Adaptor Kit	—	44-47-14	22.27	25.00	24.25	23.52
	Digital Convertor (Modem Mate)	—	49-17-94	46.60	48.75	48.26	47.78

OTHER ITEMS FOR CABLE GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FAX MODEMS – PC CARD/GSM

3Com's new **Megahertz 56K Global GSM Winmodem PC Cards** give notebook users the flexibility to access corporate networks and the Internet from almost anywhere using GSM or standard phone lines. It delivers fast 56K* data transfers over land-line with V.90 built-in, this PC Card delivers maximized performance and minimal power consumption to users who are standardized on Windows 95 or 98. XJACK connector saves you from carrying or losing extra cables. Exclusive Line Probing technology delivers higher modem throughput and more reliable connections – even over the worst line conditions.

FEATURES:

- **56Kbps* Data/14.4Kbps Fax**
  Enjoy high-speed downloads up to 56Kbps* with the V.90 56K standard, plus universal compatibility with V.90, x2 technology, V.34, and more.
- **GSM Support**
  Enjoy wireless access by connecting your GSM PC Card directly to select GSM handsets with a separately Sold cable.
- **XJACK Connector**
  Durable connector delivers easy phone connections and saves you from cable-carrying hassles.
- **Hot Swapping**
  Switch PC Cards without rebooting or exiting Windows.
- **WorldPort Software**
  Simply select a flag or country name and instantly configure your global PC Card for use worldwide.



- **Data/Fax Software**
  Fax directly from any Windows 95 or 98 applications and transfer data files at the click of a button.
- **Data/Fax/Voice Software**
  Fax directly from any Windows or Windows 95 application and transfer data files at the click of a button. Also enables telephony features.
- **Maximized for Windows**
  Windows-design delivers optimized performance for users standardizing on Windows 95 or 98 operating systems.

Model	Megahertz/56k Global GSM WinModem PC Card
CCIT datacomm standard	V90, V34, V32, V32bis, V23, V22, V22bis, V21
Datacomm speeds	300-56,000bps
Error correction	V42, V42bis/MNP Level 2-5
Command language	Hayes AT command set
Data operating modes	Asynchronous
CCITT fax standard/command set	Group III, Class 1 & 2, V30, V29, V27ter, V21, V17
Line type	Dial-up PSTN/GSM
Approval	BABT (PPT approval 27 countries)
Warranty	Lifetime limited

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
3Com Megahertz 56 Global GSM WinModem PC Card with XJACK Connector	49-54-06	86.63	89.95	89.05	88.16
3Com Direct Connect GSM Cable for Nokia 8110	49-95-06	73.37	76.19	75.43	74.67
Digital Convertor (Modem Mate)	49-17-94	46.60	48.75	48.26	47.78

OTHER ITEMS FOR CABLE GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PCMCIA ETHERNET/CARDBUS ADAPTORS



46-17-80



89-21-77

NEW VERSION OUT NOW!

The **3Com Megahertz 10/100 LAN Cardbus PC Card** brings the industry's fastest Fast Ethernet and Ethernet network access to 32-bit CardBus notebook computers up to 24% faster than competing PC Cards.

FEATURES:

- Optional standard or XJACK versions. (The XJACK connector ejects out to hook directly to the LAN cable).
- DynamicAccess features and the full-duplex switch operation capability optimise network management and performance.
- The PC Card offers the lowest power consumption in the industry up to 60% lower than that of competing cards.
- Plug and Play support. AutoLink auto-installation software and 10/100 Nway speed auto-negotiation ensure trouble-free installation.
- Parallel tasking overlaps processing tasks to speed data transmission and reception. It also adjusts the timing of interrupts to eliminate the lag that slows down other cards.

Fast EtherLink 16-bit PC Card
The Fast EtherLink 16-bit PC Card maximises performance on Fast Ethernet and Ethernet networks for notebook computers equipped with a 16-bit PC Card slot.

FEATURES:

- Patented Parallel Tasking architecture.
- Low power consumption leads to superior battery conservation and hardware reliability.
- Plug and Play support.
- Dynamic Access features.

- PC Card – Gives you the flexibility of 10/100 connectivity for your PCs using a 16-bit bus standard, in the convenient PCMCIA form factor.
- CardBus – Provides 32-bit functionality in a PCMCIA form factor for your CardBus equipped PCs. CardBus is based on PCI technology and allows you to use the full power of your Pentium processor based machines for superior performance.

Parallel Tasking® PERFORMANCE

Connector C



RJ-45 Connector

Networking pre-sales team 08701 66 33 22

3Com premier mail order partner

DESCRIPTION	CONNECTOR TYPE	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Megahertz 10/100 LAN CardBus (3CCFE575CT) 32-bit **1 pack**	C	49-18-96	90.95	93.02	92.46	91.91
Megahertz 10/100 LAN CardBus **XJACK** connector 32-bit (3CXFE575BT)	C	46-65-34	90.95	94.44	93.50	92.56
Megahertz 10/100 LAN CardBus **XJACK** connector 32-bit (3CXFE575BT) **5 pack**	C	46-65-41	435.05	◗	447.23	442.76
3CCFE574BT 16-bit 10/100 PC Card	C	89-21-77	78.92	81.95	81.13	80.32
3CCFE574BT 16-bit 10/100 PC Card **(5 pack)**	C	89-21-84	376.72	◗	387.27	383.40

OTHER ITEMS
FOR 3COM HUBS SEE PAGES 666–671
FOR 3COM SWITCHES SEE PAGES 687–690

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PCMCIA ETHERNET ADAPTORS

3Com Megahertz PCMCIA Ethernet Adaptor



FEATURES:

- The new PC Cards come with optional XJACK LAN connectors – which pop out of the PC Card to hook to the 10Base-LAN cable's RJ-45 connector – eliminating the need to carry a connecting cable.
- Parallel Tasking.
- Power Management for the industry's lowest TP power consumption.
- Broad LAN driver support, including ODI, NDIS, Windows (3.x, 95, NT) and OS/2.
- Transcend network management support.
- Plug & Play under Windows 95.
- AutoIQ intelligent diagnostics and knowledge base.
- AutoLink for automatic NetWare installations.
- Lifetime warranty.

Model	3CCE589ET/3CXE589ET	3CCE589EC/3CXE589EC
Host Bus type	PCMCIA Type II Release 2.0	
Network ports	RJ-45 (UTP)	BNC; RJ-45 (UTP)
IEEE standard	802.3 compatible	
Warranty	Lifetime warranty	

Networking pre-sales team 08701 66 33 22

3Com premier mail order partner

Connector B



BNC Connector

Connector C



RJ-45 Connector

DESCRIPTION	CONNECTOR TYPE	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
3CCE589E-TP Card	C	84-54-54	78.92	81.95	81.13	80.32
3CCE589E-TP Card – 5 pack	C	84-54-61	376.72	➧	387.27	383.40
3CCE589E-TP Card – 20 pack	C	84-54-78	1447.77	➧	➧	1473.42
3CCE589E-Combo Card	C/B	84-54-85	108.39	➧	111.42	110.31
3CCE589E Combo Card – 5 pack	C/B	84-54-92	515.27	➧	529.69	524.39
3CCE589E-Combo Card – 20 pack	C/B	84-55-02	1946.68	➧	➧	1981.16
3CXE589ET LAN PC Card with XJACK	C	46-65-10	78.92	81.95	81.13	80.32
3CXE589ET LAN PC Card with XJACK – 5 pack	C	46-65-27	376.72	➧	387.27	383.40
3CXE589EC LAN PC Card with XJACK	C/B	46-64-93	108.39	➧	111.42	110.31
3CXE589EC LAN PC Card with XJACK – 5 pack	C/B	46-65-03	513.27	➧	527.64	522.36

OTHER ITEMS FOR NETWORK CABLES SEE PAGES 599–616

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PCMCIA ETHERNET ADAPTOR & FAX/DATA MODEMS



The future-proof **3Com Megahertz 10/100 LAN+56K Modem PC Cards** provide the fastest and simplest LAN+modem connectivity available for 16-bit notebooks (46-64-00), with the added advantage of 32-bit CardBus notebooks options (49-18-64, 48-17-75).
The 3CXFEM656C (48-17-75) includes the auto-sensing XJACK connector that eliminates the need to carry LAN or Modem cables.

- Auto-senses between 10Base-T and 100Base-TX.
- Complies with x2 and the 56K V.90 ITU standard.
- 3Com's patented Parallel Tasking
- Plug and Play.
- Available in 16-bit and 32-bit CardBus versions.

Connector B	Connector C
	
BNC Connector	RJ-45 Connector



The **3Com Megahertz 10Mbps LAN+56K Modem PC Card** delivers fast, easy installation and configuration and high-performance, simultaneous LAN and modem connectivity. Parallel Tasking technology and the V.90 56K standard deliver LAN throughput up to 46% faster than other PC Cards and downloads up to 56Kbps. Plus it offers simultaneous compatibility with V.90 and x2 technology, built-in XJACK modem connector and includes a 10Base-T cable.

- Fast 56K Ethernet modem.
- AutoIQ installation diagnostic utility eliminates installation problems.
- Windows 95 Plug & Play compliant.
- Digital line protection.
- 3Com's patented parallel tasking.
- Extensive driver support.
- Improved power consumption.

3Com premier mail order partner

Model	3CXFEM656C	3CCFEM556	3CCFEM656B	3CXEM556BT	3CXEM556BC
Highest CCITT datacomm std.	V.90				
Highest datacomm speed	56Kbps				
Network Adaptor					
Host Bus Type	32-bit CardBus	16-bit PC Card	32-bit CardBus	16-bit PC Card	
System requirements	Type II or type III PCMCIA slot				
Network ports	RJ-45 (UTP)				RJ-45 (UTP)/BNC
IEEE standard	802.3				
Warranty	Limited Lifetime				

Networking pre-sales team 08701 66 33 22

	DESCRIPTION	CONNECTOR TYPE	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	Megahertz 10/100 LAN+56K **XJACK** Global Modem (GSM/ISDN capable) 3CXFEM656C	C	48-17-75	134.92	▶	138.70	137.31
	Megahertz 10/100 LAN+56K Modem 3CCFEM556	C	46-64-00	129.86	▶	133.50	132.17
	Megahertz 10/100 LAN+56K Modem 3CCFEM556 – **5 pack**	C	46-64-17	621.71	▶	639.11	632.72
	Megahertz 10/100 CardBus LAN+56K Modem 3CCFEM656B	C	49-18-64	130.75	▶	134.41	133.07
	Megahertz 10Base-T + 56K Modem **XJACK** (3CXEM556BT)	C	46-39-60	135.61	▶	139.41	138.02
	Megahertz 10Base-T/10Base-2 + 56K Modem **XJACK** (3CXEM556BC)	C/B	46-39-77	159.92	▶	164.40	162.76

OTHER ITEMS FOR NETWORK CABLES SEE PAGES 599–616

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ETHERNET ADAPTORS

The **3Com USB Network Interface** is an out-of-the box network connection solution that takes advantage of the new USB on PCs. Now you can get a network connection — without opening up your PC and installing a conventional network interface card (NIC). The USB Network Interface works with Win 98 and 10Base-T Ethernets.
Everything you need to get started is included in one box, it comes complete with a USB cable and an RJ-45 socket for a 10Base-T Ethernet connection.

FEATURES:
- Complete compatibility with 10Mbps Ethernet networks.
- Compact cable and box design.
- Easy to install — plug and play, no need to reboot.
- All-in-one solution, everything you need in one package.

Care should be taken when selecting a cable to ensure it fits the specific model it will be used with.



Networking pre-sales team
08701 66 33 22

DESCRIPTION	CONNECTOR TYPE	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
CABLES FOR 3COM 3C589, 3C563 SERIES ETHERNET ADAPTORS							
Combo Cable for 3C589D/C and 3C563D	C/B	84-86-71	29.92	33.58	32.57	31.60	
RJ-45 Cable for 3C589D/C and 3C563D	C	85-94-77	3.55	3.71	3.67	3.64	NEW
RJ-11 Modem Cable for 3C563D	—	87-81-60	75.69	84.95	82.40	79.93	
CABLES FOR 3C575-TX AND 3C574-TX							
100Base-TX Cable-RJ-45	C	89-45-91	4.49	5.04	4.89	4.74	
3Com USB Ethernet Adaptor	—	52-95-72	37.90	39.35	38.96	38.57	

OTHER ITEMS
FOR USB ADAPTORS SEE PAGES 544–549

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FAX MODEM – PC CARDS/GSM UPGRADE KITS

MultiTech Systems



56K MultiTech

Lucent Technologies
Bell Labs Innovations

The **MultiTech MultiModem MT3400 ZLXI** is a full-featured 33.6Kbps data/fax modem for PCMCIA PC Card slots. PCM Plus software, included, makes socket connectivity and cross-platform compatibility possible.*

The **MT5634ZLXI PC Card modem** for datacomm and faxing over a dial-up phone line. Uses K56flex™ when calling a fully-digital K56flex server. Uses enhanced V.34 (33.6Kbps) when calling a non-K56flex server or another client modem.

FEATURES:

- Speed Detection: Automatically detects and negotiates the modems' highest common speed.
- Serial port data rates adjust to 115.2Kbps.
- Contains MultiExpress for Windows and MultiExpress Fax for Windows.

MultiTech now offer a new set of GSM upgrade kits, which offer the option of GSM connectivity for users of the MultiMobile PC Modem Cards.

Model	MT3400ZLXI	MT5634ZLXI	MT128STZLX
CCITT datacom standard	V.90, V34, V32terbo, V32bis, V32, V22bis, V23, V22		N/A
Datacomm speeds	1200-33,600bps	300-56,000bps	128,000bps
Error correction	V42 MNP2-4		
Command language	AT Command language		
Data operating modes	Asynchronous/Autosynchronous		
PCMCIA compatibility	Type II		
CCITT fax standard/ command set	V17 Class 1 & 2		
Fax compatibility	Group 3; 9,600bps – 14,400bps		
Line types	Dial-up PSTN only		ISDN
Package contents	Modem, manual, cable, power supply unit, fax/data software		
Approval	BABT		
Warranty	5 years off-site		

***Requires Windows 3.x and/or DOS V3.3 (or higher).**

DESCRIPTION	HIGHEST CCITT STANDARD	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
MultiTech MultiModem MT3400ZLXI 33.6	V34+Fax	46-23-18	94.00	97.61	96.63	95.67
MultiTech MultiMobile MT5634ZLXI 56K	V34+Fax	44-78-90	94.54	98.17	97.19	96.22
MultiTech MultiMobile MT56128ZLX-ST 56K/ISDN PC Card	—	46-41-96	167.91	◗	172.61	170.88
MultiTech MT128STZLX-EU ISDN PCMCIA Modem	—	44-82-53	121.60	◗	125.00	123.75
MultiTech SoftGSM kit for Ericsson CH388 handset	—	49-17-70	66.25	68.79	68.10	67.42
MultiTech SoftGSM kit for Ericsson 600, 700 & 800 handset	—	49-30-94	73.13	75.94	75.18	74.43
MultiTech SoftGSM kit for Nokia 5110 & 6110 handset	—	49-53-51	75.43	78.32	77.54	76.76
International Modem Adaptor Kit	—	44-47-14	22.27	25.00	24.25	23.52

OTHER ITEMS FOR COMMUNICATIONS SOFTWARE SEE PAGES 871–878

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ETHERNET/MODEM PC CARDS

MultiTech Systems

The **MultiMobile family includes Modem-Series, Ethernet-Series and Combo-Series models. The Combo-Series** saves card slot space in your laptop by combining a modem+Ethernet into one card.
The MultiMobile PC Cards feature hot insertion and removal so the device can be installed and recognised or removed with the computer up and running. After the system recognises the card's functionality, drivers are automatically loaded to enable application access to its services.



ETHERNET FEATURES:

- Unshielded Twisted Pair (UTP) network adaptor for 10Base-T interface via an RJ-45 modular connector (optional 10Base-2 coax adaptor available); 10/100 model also supports 100Base-T Ethernet.
- Internal memory buffer (no system memory required).
- NE-2000 compatible ODI version 3.x and NDIS 2.x-3.x drivers.
- Features a five-year warranty and lifetime technical support.

Connector C



RJ-45 Connector

Modem FEATURES

- Available Data Standards: V.90/K56flex and enhanced V.34.
- Supports fax rates up to 14.4Kbps using Class 1 or Class 2 commands.
- Conserves power with auto-sleep mode.
- Includes flash memory for firmware updates to the ITU V.90 standard.
- Configures easily with a new global installation wizard.
- Features a five-year warranty and lifetime technical support.

Model	MT5634ZLX/E 10MB Ethernet+Modem	MT5634LX/FE/GB 10/100MB Ethernet+Modem
Network connection	10Base-T (RJ-45)	10/100Base-TX (RJ-45)
Datacomm speed	300-56,000bps	
Error Correction	V.42	
Data Compression	V.42bis, MNP5	
Warranty	5 year off-site	

Lucent Technologies
Bell Labs Innovations

DESCRIPTION	CONNECTOR TYPE	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Multitech MultiMobile MT5634ZLX/E Ethernet 10MB + 56K Modem	C	47-05-68	154.02	▶	158.33	156.75
Multitech MultiMobile MT5634ZLX/FE/GB 10/100MB + 56K Modem	C	49-18-42	179.50	▶	184.52	182.67
GSM KITS						
*MultiTech SoftGSM kit for Ericsson CH388 handset	—	49-17-70	66.25	68.79	68.10	67.42
*MultiTech SoftGSM kit for Ericsson 600, 700 & 800	—	49-30-94	73.13	75.94	75.18	74.43
*MultiTech SoftGSM kit for Nokia 5110 & 6110	—	49-53-51	75.43	78.32	77.54	76.76
*MultiTech SoftGSM kit for Siemens S10	—	49-94-81	69.04	72.23	71.51	70.79
International modem adaptors	—	44-47-14	22.27	25.00	24.25	23.52

*Only compatible with MultiMobile MT5634 ZLX/E – 47-05-68

OTHER ITEMS FOR NETWORK CABLES GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▸▸ Save £££'s!
▸▸ Check live stock
▸▸ Track order status

GSM SOFTWARE MODEMS

TDK



GlobalPulse™ Software modem solution
Experience your own mobile office by combining TDK's GlobalPulse™ with your laptop or handheld computer and your GSM phone.
GlobalPulse™ is a unique software modem that is easy on your batteries and uses a simple cable connection no matter where you are, stay connected and in touch.

- E-mail.
- Web access.
- Remote synchronisation.
- Text messaging.
- For Nokia mobiles.
- For Ericsson mobiles.

KEY FEATURES:

- Simple cable connection.
- Upgrades to 14.4kbps GSM.
- Works on all GSM/PCN networks.
- Use your touch pad to manage your phone No.'s.

*Remember to specify whether you have an Ericsson or Nokia Mobile Phone.

GlobalPulse™ for Windows CE
- Casio.
- Compaq.
- Hewlett-Packard.

GlobalPulse™ for Win 95/98/2000/NT
- Supports all notebooks and sub-notebooks.

GlobalPulse™ for Palm
- Palm V, Vx.
- Palm III, IIIe, IIIc, IIIx.
- IBM workpad PC companion.

Please note cat nos 49-17-88 and 64-31-92 do not include the fax feature

ok NOKIA

APPROVED ERICSSON

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	GlobalPulse (**for 3Com Palm**) GSM Data/SMS for Nokia 6110/5110	49-17-88	65.71	68.75	68.06	67.38
✂	GlobalPulse (**for 3Com Palm**) GSM Data/SMS for Ericsson 688/788/888/T18	64-31-92	77.26	80.83	80.02	79.22
NEW	GlobalPulse (**3Com Palm**) with Handmail Nokia 5110/6110	51-36-81	81.48	85.25	84.40	83.55
NEW	GlobalPulse (**3Com Palm**) with Handmail Ericsson 688	51-64-65	81.48	85.25	84.40	83.55
	GlobalPulse (**for Win 95/98/2000/NT**) GSM Data/Fax/SMS for Nokia 6110/5110	46-79-73	65.71	68.75	68.06	67.38
	GlobalPulse (**for Win CE**) GSM Data/Fax/SMS for Nokia 6110	46-79-80	65.71	68.75	68.06	67.38
	GlobalPulse (**for Win CE**) Casio E10/E11/E15/E100/E105	49-94-94	74.55	74.99	74.89	74.79
NEW	GlobalPulse (**for Win CE**) Compaq 810/2010/AERO	46-17-30	65.71	68.75	68.06	67.38
NEW	GlobalPulse (**for Win CE**) HP360/620/660/Jornado	46-70-29	65.71	68.75	68.06	67.38

OTHER ITEMS FOR NETWORK CABLES SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MODEM/LAN/ISDN/GSM – PC CARDS

TDK



GSM READY SEE PAGE 740

GlobalPro ISDN

With the ultimate in speed, reliability and security, the GlobalPro is recognised as the most sophisticated ISDN product in the marketplace today – automatically determining what type of line you're connected to for the fastest possible connection.

ISDN

- Digital dual channel for connection at 128 or 64 kbps.
- For Windows 95/98/NT, CAPI 2.0 compliant.
- Integrated design with no cumbersome external pods.
- Dual analogue and ISDN connections.
- Worldwide switch settings and ISDN protocols.

56kbps Modem

- Connect at highest speed, with autosensing for V.90 and K56flex standards.
- Works worldwide, with over 80 country approvals.
- GSM Ready.



GSM READY SEE PAGE 740

Global Networker 5670

Providing the ultimate connectivity both in and out of the office. Whether you need access to the Corporate 10Base-T LAN, or connections to 10Base-2 networks in a branch office, the Global Networker delivers.

Ethernet LAN

- 10Base-T with optional 10Base-2 module.
- Supports all popular platforms and networks.
- NE2000 compatible.

56kbps Modem

- Connects at highest speed, with auto-sensing for V.90 and K56flex standards.
- Works worldwide, with over 80 country approvals.
- GSM ready.



Global Freedom 5660

TDK's benchmark Global Class modem designed to meet the network specifications of each national telephone service provider.

56kpbs Modem

- Connects at highest speed, with auto-sensing for V.90 and K56flex standards.
- Works worldwide, with over 80 country approvals.
- GSM ready.

APPROVED ERICSSON

NOKIA

MOTOROLA

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
TDK Global Pro ISDN/Modem/GSM	49-30-86	193.34	➧	198.75	196.76
TDK Global Networker 5670 LAN/Modem/GSM Card	46-08-84	164.15	➧	168.75	167.06
TDK Global Freedom 5660 56Kflex & V90 Modem/GSM	44-76-63	124.03	➧	127.50	126.23
TDK ISDN Upgrade (for 5660 & 5670)	49-96-04	81.54	85.31	84.46	83.61

OTHER ITEMS
FOR COUNTRY ADAPTORS SEE PAGES 747, 748
FOR TDK PC CARD FOR MAC SEE PAGE 130

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

UPGRADE KITS – GSM & ISDN

TDK



GSM Activation Kits

This allows you to be on the move, yet able to connect your laptop or hand-held computer to your GSM mobile phone for:

- E-mail
- Fax*
- Web access
- Text messaging
- Remote synchronisation

GSM Kits also put you in control of your mobile phone, so you can use your keyboard or stylus to manage and back up the number on your handset. TDK is a recognised leader in GSM mobile data, with our products developed in partnership with Nokia, Ericsson, Motorola and Siemens.
*Not Palm.



ISDN Upgrade Kits

With our new ISDN Upgrade Kit, some of our existing PC Cards can be upgraded to add ISDN functionality. This includes the TDK Global Freedom 5660, Global Networker 5670 and Series 6100.

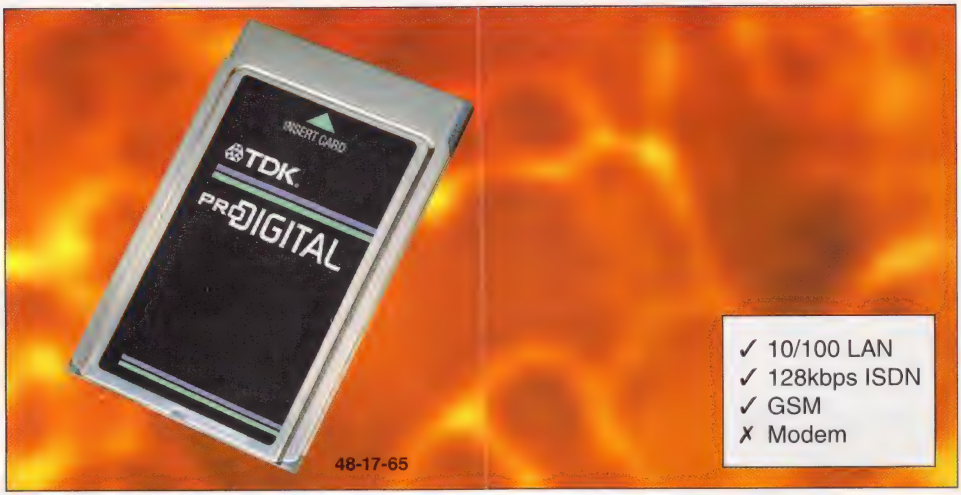
	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	GSM Kit for Ericsson GH688/GF788/T18	44-93-17	75.27	78.75	77.96	77.18
	GSM Kit for Nokia 6110/5110	45-06-05	75.27	78.75	77.96	77.18
NEW	GSM Kit for Ericsson T28	45-17-58	75.27	78.75	77.96	77.18
NEW	GSM Kit for StarTac V/L Series	45-30-88	75.27	78.75	77.96	77.18
NEW	GSM Kit for Microtac	45-53-44	75.27	78.75	77.96	77.18
NEW	GSM Kit for Siemens E10/S10/S11/S15	55-17-60	75.27	78.75	77.96	77.18
NEW	GSM Kit for Panasonic G450/G500	55-30-89	75.27	78.75	77.96	77.18
	ISDN Upgrade Kit	49-96-04	81.54	85.31	84.46	83.61

OTHER ITEMS
FOR COMMUNICATIONS SOFTWARE SEE PAGES 871–878
FOR PCMCIA GUIDE SEE PAGE 98

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DIGITAL PC CARDS

TDK.



ProDigital™ transforms the cost and convenience of providing digital connectivity. With leading notebooks today shipping with an integrated 56k V.90 modem, TDK have designed ProDigital to give you everything you need except another modem – and that can make for budget savings of up to 40%.
ProDigital is the only multi-function PC Card that offers you 10/100 LAN with GSM & ISDN options for all the digital connections on a single card ... but without another expensive modem. Now there are two ways to get 'ProDigital'...

ProDigital 10/100 LAN with optional GSM and/or ISDN upgrade

- 10/100 LAN access.
- Auto sensing connectivity.
- Burst transfer up to 200Mbps.
- RJ45 and optional BNC support.

GSM upgrade (See p.740)

- Support for world leading GSM handsets including Nokia, Ericsson, Motorola and Siemens.
- Transparent/non transparent data.
- SMS, ISDN V.100 quick connect and phonebook support.

ISDN upgrade

- 128Kbps dual channel data transfer.
- Multi-protocol support including CAPI 2.0.

ProDigital ISDN with optional GSM upgrade

- 128Kbps dual channel data transfer.
- Multi-protocol support including CAPI 2.0.
- No bulky external pods!

GSM upgrade (See p.740)

- Support for world leading GSM handsets, including Nokia, Motorola, Ericsson and Siemens.
- Transparent and non transparent data.
- SMS, ISDN V.110 quick connect and phonebook support.

PRODIGITAL

APPROVED ERICSSON · MOTOROLA · ok NOKIA

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
TDK ProDigital LAN 10/100 (GSM & ISDN upgradeable)	48-17-65	64.57	67.05	66.38	65.72	
TDK ProDigital ISDN (GSM upgradeable)	49-39-53	123.62	◗	127.08	125.81	NEW
TDK ISDN Upgrade (for ProDigital LAN)	49-96-04	81.54	85.31	84.46	83.61	

OTHER ITEMS
FOR ETHERNET CARD CONNECTOR GUIDE SEE PAGE 715

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PCMCIA ETHERNET ADAPTORS

EICON NETGEAR





With the **FA410TX** your laptop is compatible with 10Mbps Ethernet and your migration to Fast Ethernet is built-in with 10/100 Powershift technology; all for a 10Mbps price.
With a NETGEAR FA410TX, your laptop is ready to upgrade to Fast Ethernet when you are. Simple installation software makes Powershifting a breeze.

KEY FEATURES:
- 10/100Mbps Network Performance.
- Guaranteed Compatibility.
- Simple One-Step Installation.

10/100Mbps Network Performance
The FA410TX, NETGEAR's 16-bit PC Card, makes a Powershift to Fast Ethernet possible for your laptop or PCMCIA compatible computer. Auto-sensing technology and Ethernet/Fast Ethernet compatibility lets you Powershift to Fast Ethernet at the price of regular Ethernet.

Guaranteed Compatibility
Guaranteed compatibility with all major laptop brands (PCMCIA V2.x, JIEDA 4.x and 16-bit PC Card standard support). Comprehensive driver support ensures compatibility with Windows 95, Windows NT and NetWare.

The **Eicon Diva Mobile V.90 PC Card** provides ISDN and analogue connectivity for the mobile professional in one card. The Diva Mobile is capable of connecting to either ISDN or analogue lines.

Connector C



RJ-45 Connector

FEATURES:
- Full support for Windows 95, 98 and NT Notebook PCs.
- Plug-and-play configuration.
- 128Kbps-ready.
- With on-board modem.
- V.120 rate adaptation.
- RVS-COM software suite.

Model	Gold Card Global 56K+ISDN Upgrade
CCIT standards	V.90, V.34, V.32bis, V.32, V.22bis, V.22, V.21
Datacomm speeds	300-128,000bps
Data Compression	V.42bis, MNP5, MPPC
Command Language	Hayes AT, CAPI 2.0, EIA Class 1 & 2
Data operating modes	PPP Asynchronous to Synchronous
PCMCIA compatibility	PCMCIA 2.1 or later
Fax compatibility	9,600 (V.29), 14,400 (V.17)
ISDN Specification	Supports 64 or 56Kbps, PPP, MLPPP V.120, X.75, HDLC
Package contents	Diva Adaptor, Software CD, BURP Phone tools, ISDN/Analogue cables
Warranty	5 years return-to-base

Model	FA510C	FA410TXC
Host Bus type	CardBus	PC Card
Network ports	10Base-T, 100Base-TX	
IEEE standard	802.3 compatible	
Warranty	Lifetime warranty	

Networking pre-sales team 08701 66 33 22

DESCRIPTION	CONNECTOR TYPE	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Netgear FA410TXC 10/100 Ethernet PC Card	C	45-18-17	50.22	52.15	51.63	51.11
Netgear FA510C CardBus 10/100Mbps PC Card	C	49-31-70	52.61	54.63	54.08	53.54
Eicon Diva Mobile V.90 PC ISDN Card	—	49-46-85	191.11	▶	197.94	195.96

OTHER ITEMS FOR NETWORK CABLE GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶ Save £££'s!
▶▶ Check live stock
▶▶ Track order status

FAX MODEMS – PC CARD

Hayes



Networking pre-sales team 08701 66 33 22



ACCURA V90 PC Card is a data/FAX PC Card ideal for users needing remote access in the UK via their lap top.

FEATURES:
- High speed modem with data download speeds up to 56Kbps
- Data/FAX functionality
- FAX Class 1
- PC Card Type II PCMCIA

Hayes OPTIMA 56K Global PC Card Modem
FEATURES:
- V.90 and ISDN ready.
- GSM and dial-up comms in a single card.
- Fax send & receive (Dial-up or GSM).
- Flash ROM upgradable.
- Features a slimline cable connector which will not block other slots or break off easily.
- Country configurable from available list.

OPTIMA V.90 WorldNet PC Card
A fully featured PC Card for global communications. With all the functionality of the OPTIMA 56K Global PC Card but now includes Ethernet Functionality.

Model	ACCURA V90 PC Card	OPTIMA 56K Global PC Card	OPTIMA V.90 WorldNet PC Card
ITU data standards	V.90 56K Flex, V34, V32, V32bis, V22bis, V22, V21	V.90, V34, V32bis, V32, V22bis, V22, V23, V21	
Line speeds	300-56,000bps	56,000 dial-up 9,600 GSM	33,600bps dial-up, 9,600bps GSM
Error control/data compression	V42bis/MNP5		
Fax protocol	Group 3/V17	Group 3, V17 dial-up/Group 3 GSM	
Fax class	Class 1	Class 1 & 2, Class 1 GSM	Class 1
Command language	Hayes standard AT command set		
Data operating modes	Asynchronous		
PCMCIA compatibility	PCMCIA Release 2.0, Type II		
Line types supported	Dial-up	Dial-up & GSM (Optional Kit)	Dial-up, GSM & ISDN (Optional Kit)
Package contents – PC card	PCMCIA fax modem, manual, Smartcom LE Data/Fax software for Windows (3½"), Phone cables & Slimline Connector	PC Card fax modem, manual, Communications software, Phone cables with slimline connector	
Warranty	2 years, 5 years if registered within 90 days	5 years	

DESCRIPTION	HIGHEST CCITT STANDARD	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
ACCURA V90 Modem PC Card	—	49-12-72	76.16	79.08	78.29	77.51
OPTIMA 336 Global fax PC Card	—	87-85-31	133.17	♦	136.90	135.53
OPTIMA Global Card GSM Kit for Nokia 3110/8110	—	87-85-24	73.26	76.65	75.88	75.12
OPTIMA Global Card GSM Kit for Nokia 6110	—	45-18-86	73.26	76.65	75.88	75.12
OPTIMA 56K Global PC card	V90+Fax	44-27-47	136.09	♦	139.90	138.50
OPTIMA V90 WorldNet PC Card	V90+Fax	47-66-03	159.76	♦	164.23	162.59
ISDN Accessory Kit for Optima 56K Global	—	47-56-35	129.49	♦	134.12	132.78
OPTIMA Classic GSM Kit for Nokia 8110/3110	—	85-46-41	98.05	♦	101.56	100.54
International Modem Adaptor Kit	—	44-47-14	22.27	25.00	24.25	23.52

OTHER ITEMS
FOR PORTABLE PCs & ACCESSORIES INDEX SEE PAGE 40
FOR HAYES DESKTOP MODEMS SEE PAGES 784

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FAX MODEMS — GSM PC CARDS

NOKIA



The **Nokia Cellular Card Phone Version 2** is an integrated PC card with its own antenna. The Card Phone plugs into the PCMCIA slot of any suitable portable computer, turning it into a mobile office without having to use an additional cellular mobile phone.

The Nokia Cellular Card Phone supports voice, data, fax and SMS messaging over GSM networks. It works with Windows 95 applications.

FEATURES:

- PCMCIA type II extended card.
- Weight: 60g.
- Short messages: send and receive.
- Voice: digital audio over PCMCIA interface.
- Dual Band GSM 900 & GSM 1800.
- Support High Speed Data (HSCSD).



Plug the **Nokia Cellular Data Suite Version 2 or 3** – into your PC's serial port to connect your cellular phone. It also enables you to manage your phone memory on your PC and send and receive SMS messages. This product leaves the PCMCIA slot free for a network card. Now available for the Nokia 6110 which can be connected via the RS232 Serial Cable or via Infra Red and is a solution for Win 95, NT 4.0.

The Nokia V3 additional features are:

- PC Calendar Software.
- Supports data up to 14,400bps.

The idea of the **Nokia PremiCell terminal** is simple: hang the terminal on the wall and connect it to the mains network. Connect a traditional telephone to the unit. Lift the telephone and call. The PremiCell terminal sends calls through the GSM network and no fixed line is needed. The PremiCell terminal can also be connected to a fax and computer.
With the Premicell terminal you can avoid the construction of time-consuming and expensive fixed lines. You can transfer it easily from one place to another. In addition to drawing the current from the mains network you can also use a battery with the solar power pack. The PremiCell terminal is available for GSM 900 and 1800 networks.

- A home telephone for those who move often. You don't need to wait for line construction.
- A second line without a second cable.
- Telephone, telefax and data connections for the mobile office.
- Telephone and telefax for the exhibition stand. The same number for every exhibition.
- Telephone for a boat, caravan or mobile home.
- GSM in a weak field area.

	DESCRIPTION	HIGHEST DATA RATE	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	Nokia Card Phone – Version 2	—	49-32-81	233.62	◗	237.50	236.08
	Nokia Cellular Data Suite for Nokia 3110/8110 for Win 95 only – Version 2	9,600bps	87-77-69	69.30	72.50	71.78	71.06
	Nokia Cellular Data Suite for Nokia 6110 (Win 95/98) Version 3	14,400bps	49-95-88	77.66	81.25	80.44	79.63
NEW	Nokia Cellular Data Suite – Version 2/3 upgrade	—	48-53-50	46.60	48.75	48.26	47.78
NEW	Nokia PremiCell GSM Fixed Wireless Terminal 900MHz (Vodafone, Cellnet)	—	49-96-56	386.50	◗	389.00	388.50
NEW	Nokia PremiCell PCN Fixed Wireless Terminal 1800MHz (Orange, One-2-One)	—	49-71-61	382.65	◗	389.00	386.67

OTHER ITEMS FOR COMMUNICATIONS SOFTWARE SEE PAGES 871–878

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PCMCIA ETHERNET ADAPTORS

D-Link

The **DMF-560TXD** is a Direct Port™ 10/100MB Dual Speed Ethernet PC Card with an integrated V.90/ K56flex data/Fax Modem.

- Asynchronous full duplex.
- PCMCIA Type II Card.
- 10Base-T/100Base-TX RJ-45.
- Supports Windows/NetWare/TCP/IP etc.

The **DME-560CT** PCMCIA multifunction PC Card combines Ethernet LAN and the power of a 56K/ V.34bis fax/modem.

- K56flex Fax Modem.
- DME-560T supports 10BASE-T Ethernet.
- Simultaneous use of modem and LAN .
- Digital line protection.
- Supports hot swap & Plug and Play.

The **DFE-650TX dual 10/100Mbps** interface allows users to migrate to Fast Ethernet in easy steps.

- Auto-negotiate 10/100Mbps dual interface.
- 16-bit PCMCIA dual speed PC Cards.
- Media coupler with single RJ-45 connector.
- Full Duplex supported in 10Base-T and 100Base-TX modes.
- Diagnostic LEDs.

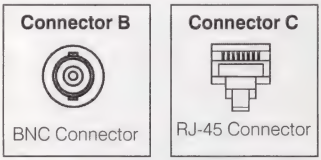
The **D-Link DE-660CT PC Card** supports full duplex and is the first 10Mbps PC card to incorporate JITI (Just In Time Interrupt) to deliver higher throughput.

- BNC and RJ-45 connectors.
- LEDs for easy diagnostics.
- Driver programs for all major network operating systems.
- Windows 95, Windows NT 4.0 certified driver.
- Full duplex supported.
- Lifetime technical support.



The **DFE-660TX CardBus 10/100Mbps** offers high-performance network connection for all notebook PCs with drivers for all major network OSs.

- 32-bit bus master CardBus dual-speed PC cards.
- 10/100Mbps dual-speed NWay interface.
- Half/full duplex supported.
- Single RJ-45 shielded connector.
- 100-ohm UTP/STP cabling supported.
- Auto-correction of reverse polarity.
- Passes IEEE 802.3 1500V high pot test.
- Menu-driven network OS installation program.



Networking pre-sales team 08701 66 33 22

DESCRIPTION	CONNECTOR TYPE	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DE-660CT 10Mbps PC Card	C/B	87-12-22	35.07	36.42	36.06	35.70
DE-660CT 10Mbps PC Card **6 pack**	C/B	46-23-49	200.13	◆	205.73	203.67
DFE-650TX 10/100Mbps PC Card	C	87-12-39	65.31	67.82	67.14	66.47
DFE-660TX CardBus 10/100Mbps PC Card	C	47-59-58	72.57	75.35	74.60	73.85
DME-560CT 56k+10Mbps PC Card	C	49-44-96	120.95	◆	124.34	123.10
DMF-560TXD 56K (Direct Port) + 10/100Mbps PC Card	C	49-32-52	110.82	◆	113.92	112.78

OTHER ITEMS
FOR NETWORK CABLE GUIDE 599
FOR D LINK HUBS SEE PAGES 676, 677

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

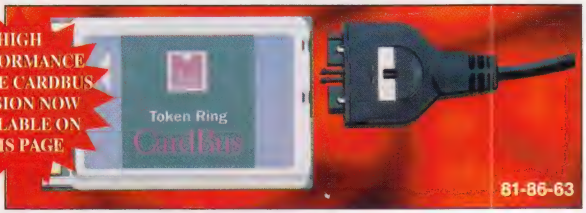
TOKEN RING – PCMCIA NETWORK ADAPTORS

The **Smart 16/4 PCMCIA Ringnode** and **16/4 CardBus adaptor** from **Madge** are designed for laptop and notebook users requiring direct network connectivity. Both adaptors offer unrivalled performance and feature a robust LAN cable connector, helping to minimise support costs.

FEATURES:

- Intuitive install and diagnostics (Madge Assist).
- Simple driver set (LAN Support Software 6) enabling a standard set up across PCI, ISA and PC card.
- Robust off-set connector allows X-Jack use.
- Plug and Play or equivalent.
- Highly efficient data throughput reduces latency.
- Multiple choices for DOS memory savings.
- Full Duplex (Dedicated Token Ring) support maximises server data throughput.

HIGH PERFORMANCE MADGE CARDBUS VERSION NOW AVAILABLE ON THIS PAGE



Madge 16/4 Cardbus Adaptor MK2

The 16/4 Cardbus adaptor builds on the compatibility and performance of the world's first 32-bit PC Card adaptor. It is designed for advanced 32-bit laptop operating systems such as Windows 95, 98 and NT4. Also offering support for Apple Powerbook and Linux applications.

- Easy to install and use.
- Single software suite for all PC Cards, desktops and servers.
- Industry-certified (CardBus Mk2 is CP98 and PC99 compliant).
- Ultimate flexibility.
- Wide operating system support including DOS, Windows, MacOS and Linux.
- Apple Powerbook G3 systems supported by Madge 16/4 CardBus Mk2.

Model	Smart 16/4 PCMCIA Ringnode	16/4 CardBus Adaptor
Network type	4 or 16Mbps IBM and IEEE 802.5 Token Ring	
Ring interface	STP (9-pin D-type) and UTP (RJ-45)	
Bus interface	PCMCIA v2.1	
Data transfer	32-bit PIO	32-bit bus master



Olicom Go-Card Token-Ring/ Modem

- Built-in 33.6 Modem.
- Easy point-and-click software installation.
- Communication software included.
- Power management software included.
- 'Hot Swap' support for Win 95 and OS/2.

Olicom PCMCIA Token-Ring LAN

- PowerMACH drivers for Novell, Microsoft and IBM operating systems.
- Olicom SNMP Agent available.
- Power management feature.
- 3 year warranty.

Connector C



RJ-45 Connector

Connector F



DB 9-way Female

Networking pre-sales team 08701 66 33 22

DESCRIPTION	PART NO	CONNECTOR TYPE	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Madge Smart 16/4 PCMCIA – Token Ring	20-01	F/C	81-86-63	129.12	◗	132.73	131.40
NEW Madge Smart 16/4 PCMCIA-PCI	20-03	F/C	47-17-37	120.28	◗	123.65	122.41
Olicom Go-Card T-R/Modem 33.6 PCMCIA	OC-3232	F/C	87-02-30	240.87	◗	247.61	245.13
Olicom Go-Card PCMCIA Token-Ring LAN	OC-3221	F/C	79-89-72	145.42	◗	146.42	146.22

OTHER ITEMS FOR A RANGE OF TOKEN RING NICs SEE PAGE 659

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

POWER ADAPTOR KITS — AVRO PACIFIC



SEE PAGE 748 FOR MORE MODEM ADAPTORS



DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
6 Piece Power adaptor Kit	45-00-69	17.09	17.95	17.75	17.49
12 Piece Power adpator Kit	45-00-76	28.99	29.95	29.75	29.55

MODEM ADAPTORS — AVRO PACIFIC



Modem Adaptors
This 12 Piece International Modem Connector Kit covers more than 150 counties. This kit offers high quality, compact telephone adaptors and is the best selling product of its type worldwide. It is compatible with all PC cards, modems and laptop computers. Provides access to international telephone systems worldwide including most of western Europe, the Far and Middle East. Scandinavia, America and Canada. The kit includes a nylon zip top bag and a free modem reel.



Modem Adaptors
This 6 Piece European and USA Modem Connector Kit covers France, Italy, Holland, Belgium, Germany, North and South America, Spain, Ireland plus many other countries that use the USA style plug.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
6 Piece Modem adaptor Kit	44-47-21	24.20	24.90	24.80	24.60
International Modem Adaptor Kit	44-47-14	22.27	25.00	24.25	23.52

UNIVERSAL COUPLER FOR MODEM FAX — AVRO PACIFIC

Modem adaptors – Universal Electronic Coupler for Modem and Fax. The majority of modems, whether desktop or PC card, are analogue and can not be connected to digital or ISN telephone system. Modem Mate allows the connection of any modem to any modular telephone system. Ideal for every destop, saving the high cost of analogue cards in a PBX system. Small, compact and battery powered modem Mate is the ideal accessory when travelling with a modem.



DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Modem Mate – Electronic Coupler for Modems	49-17-94	46.60	48.75	48.26	47.78

OTHER ITEMS
FOR PORTABLE PCs & ACCESSORIES GUIDE SEE PAGE 50

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MODEM ADAPTORS — AVRO PACIFIC



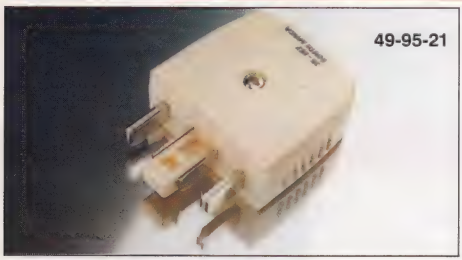
Modem Adaptors – 12 Piece European Modem Connector Kit
The comprehensive travel kit covers more than 150 countries. This kit offers high quality, compact telephone adaptors. It is compatible with all PC cards, modems and laptop computers. Provides access to telephone systems including most countries in Europe and Scandinavia. The kit includes a nylon zip top bag and a free 5m modem cable reel.



Modem Adaptors – World Kit
The new world kit contains all of the apaptors you will ned to travel in up to 249 countries. Included in the kit are the micro modem cable reeler and a comprehensive connection guide advising which adaptors are used in each country. Contained, in two handy sized, zip top, nylon travel bags.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Avro Pacific Modem Adaptor World Kit– Save £180.00	95-96-63	98.50	99.95	99.75	99.50
Avro Pacific Modem Adaptor European Kit	44-47-14	22.27	25.00	24.25	23.52

INTERNATIONAL MODEM ADAPTORS — AVRO PACIFIC



Avro Pacific now offer the mobile user individual modem adaptors allowing access for your modem or PCMCIA card to telephone systems in various countries.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Avro Pacific USA/UK 2-piece Modem Adaptor Kit	49-18-71	9.45	9.95	9.85	9.75
Avro Pacific Australia Modem Adaptor	49-31-62	7.35	7.95	7.85	7.75
Avro Pacific Japan Modem Adaptor Kit	49-54-24	7.45	7.95	7.85	7.75
Avro Pacific South Africa Modem Adaptor	49-95-21	7.45	7.95	7.85	7.75
Avro Pacific Poland/Russia Modem Adaptor	49-17-54	7.50	7.95	7.85	7.75
Avro Pacific Yugoslavia Modem Adaptor	49-70-54	7.45	7.95	7.85	7.75

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FAX SWITCH — AVRO PACIFIC

Fax Friend works with all types of Fax Machines including those with a 'built-in' telephone switch. It is compatible with all types of answering machines and can be used with fax and data modems.

- Fax and phone on a single line.
- Remote control of your fax from any extension.
- Works with cordless telephones.
- Easy to install – just plug into any telephone socket.
- Fully approved, cost effective and PABX compatible.
- No recorded voice, tones or clicks.



FEATURES COMPARISON CHART		
	FAX FRIEND	"BUILT-IN"
Allows FAX & Modem to share a line	YES	NO
Remote control of FAX from any extension	YES	NO
All telephone extensions ring as normal	YES	NO
Works with CORDLESS telephone	YES	NO
Use existing answering or FAX machine	YES	NO
Control FAX Machine from CORDLESS phone	YES	NO
FAX Machine increases REN loading*	NO	YES
Operates correctly with a single extension	YES	YES
Includes programmable ring counting	YES	YES
Works with Auto or Manual incoming Faxes	YES	YES
Plugs in anywhere on line	YES	YES

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Fax Friend Fax Switch	95-96-25	36.00	36.95	36.75	36.49

MAINS POWER ADAPTORS — AVRO PACIFIC

Mains Power from your Car Cigar Lighter

FEATURES:

- Provides mains power from your car cigarette lighter socket.
- It will safely provide power for your laptop computer, or recharge your mobile phone, video camera, power tools or other small electrical appliances.
- Automatic cut out when your car battery voltage falls below 10.5 volts. Works in any vehicle, 230 volts.
- 140 watts Continuous Power.



DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Avro Pacific DC/AC Convertor	45-00-83	38.69	39.99	39.79	39.49

OTHER ITEMS
FOR POWER/MODEM ADAPTORS SEE PAGES 747–749

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

ALL YOU NEED TO KNOW ABOUT ISDN

WHAT IS ISDN?

Integrated Services Digital Network (ISDN) is a high-speed digital data service. With ISDN, you can transmit large amounts of data, voice and video signals over a single telephone line at higher speeds – **and a lower cost** – than with any other digital service or analogue modem.

Typical ISDN applications...
ISDN is the perfect choice for any number of high-volume datacomm applications where faster data rates, lower prices and guaranteed data integrity are required:

- Internet access and online service.
- Telecommuting.
- Remote-office routing.
- Videoconferencing.
- PC-to-PC screen sharing and collaboration.
- Disaster recovery.

Also consider ISDN service when you need...

- Datacomm service to more than one location.
- Datacomm lines for just a few hours a day.
- Simultaneous voice and data communications.
- A high-speed backup line.

Three main reasons to consider ISDN:

1. ISDN is a switched service. That means data connections are temporary and the ISDN link is active only when you use it. The benefit? After a small monthly fee, you pay only for ISDN calls you make.
2. ISDN supports flexible connections to multiple sites. Just like a regular telephone line, ISDN enables you to dial any ISDN location anywhere in the world.
3. All-digital transmission means high performance. High-speed analogue modems can suffer data slowdowns because of poor telephone-line quality. Since ISDN is an end-to-end digital service, you always have the full bandwidth available for data transmission.

Some background information about ISDN...
There are three kinds of ISDN service: Basic Rate Interface (BRI), Primary Rate Interface (PRI) and Multirate. PRI and Multirate service are typically used by large facilities to support high-bandwidth applications such as PBX phone systems. These services are more expensive and therefore less widely available than BRI service. The most common (and least-expensive) ISDN service is BRI. Its usual application is combining voice and data circuits over one line between small-scale ISDN sites.

BRI SERVICE

A single BRI line can accommodate up to 128kbps over two virtual 64kbps Bearer (B) channels. Each B channel can transmit digital data and fax signals simultaneously, along with digitised voice and video traffic. A single 16kbps Delta (D) channel is allocated to support system 'overhead' functions such as signalling the telecomm switching system to initiate a call. The illustration (**below**) shows the data capacity of a BRI ISDN line (also referred to as a 2B+D line).

What makes ISDN unique is that each B channel is a separate communication circuit. That means that just one ISDN line can support simultaneous two-way communication for two devices, such as a computer and a telephone or a computer and a video camera for teleconferencing.

Additionally, if you need to send more data than one 64kbps B channel can handle, ISDN also supports the de facto **BONDing** standard for **inverse multiplexing.** This links the two B channels into a single logical circuit that can support data rates up to 128kbps. In fact, when using ISDN multiplexors, you can now merge multiple ISDN lines for maximum data rates as high as 2.048Mbps!



www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

GUIDE TO REMOTE ACCESS SOLUTIONS

What is a Router?
Router

A router is a hardware device that stores and forwards network data between LANs and WANs. It connects LANs at the Network layer (Layer 3 of the OSI model) and supports the protocols required to route messages expediently from source to destination. Routers read the address information included with incoming data, then decide on the best path. Typically deployed on larger networks, routers can be used to improve network segmentation, route data between dissimilar LANs or route data to a WAN.

Remote Access

RampNet 785, 786
Cisco 777–779
Intel 772–775
3Com 768, 769
Multitech 760–761
Netgear 781
D-Link 782
Elsa 764
Motorola 783

What is a Modem?
Modem

A contraction of the term 'Modulator-DEModulator'. A modem converts the serial digital data from a transmitting terminal into a form suitable for transmission over the analogue telephone channel. A second unit reconverts this signal to serial digital data for acceptance by the receiving terminal.

What is a Terminal Adaptor?
Terminal Adaptor

An ISDN Terminal Adaptor (TA) is a device used to transmit data over a digital network in exactly the same way a modem is used to transmit over an analogue network. Although all terminal adaptors perform the same basic function models are available that enhance and aid the function they have been purchased for.





www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FAX MODEMS – INTERNAL/EXTERNAL

Hayes



OPTIMA V.90 Business Modem
The ultimate business speed machine packed with all the latest business features. Easy to install and use with enhanced communications.

FEATURES:
- 56,000bps download speed when connecting to a compatible ISP
- Supports throughput of up to 230,400bps twice the speed of other modems
- Hayes AutoSync determines mainframe (Synchronous) and PC (Asynchronous)
- Remote configuration
- Password encryption and dial-back security
- Voice/Data/FAX discrimination



ACCURA V.90 PCI modem. The ultimate in new technology. This PCI modem brings you the latest technology with the flexibility and reassurance of the **ACCURA** name.

FEATURES:
- V.90 Voice/Data/Fax modem.
- 56,000 download speed when connecting to a compatible ISP.
- Voice Storage and playback.
- Remote recording of messages.
- Password protection.
- Error control and built in data compression.
- Software and cables included.
- 5 year warranty.

Model	OPTIMA 56K BUSINESS MODEM	ACCURA 56K EXTERNAL	ACCURA V.90 PCI
ITU (CCITT)	V.90, K56Flex, V.34, V.32bis, V.32, V.22bis, V.22, V.21	V.90, V.34, V.32bis, V.32, V.22bis, V.22, V.21	
Proprietary Std.	K56Flex, V.FC		
Datacomm speeds	300–56,000bps		
Error correction	V 42, MNP 2-4		
Data compression	V.42bis, MNP5		
Command Language	Hayes Standard AT Command Set		
Data modes	Asynchronous/Synchronous	Asynchronous	
Fax	Group 3, V.17, Class 1 & 2		Group 3, V.17, Class 1
Voice messaging	Yes		
Line types	Flash ROM & Leased Line Support	Answerphone, FDX speaker phone	Answerpohone
Package contents	Software, modem, cable, manual		
Warranty	5 years		

	DESCRIPTION	BUS TYPE	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	OPTIMA V90 Business Modem **External**	—	46-22-77	161.83	▶	166.36	164.70
	ACCURA V.90 Voice/Fax/Data **Internal**	PCI	49-32-51	43.48	45.15	44.70	44.25
NEW	ACCURA 56K Voice/Fax/Data **Internal**	ISA	48-17-74	55.57	57.70	57.12	56.55
	ACCURA 56K Voice/Fax/Data **External**	—	84-96-94	74.39	77.24	76.47	75.70
	Digital Converter (Modem Mate)	—	49-17-94	46.60	48.75	48.26	47.78
	Modem Cable Reel	—	49-18-06	7.60	8.49	8.25	7.99

OTHER ITEMS
FOR ISDN GUIDE SEE PAGES 750, 751

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FAX MODEMS – DESKTOP & INTERNAL

MultiTech Systems

MAC KIT NOW AVAILABLE



The **MultiTech range of 56K ready MultiModems** combine ease-of-use with the latest in datacomm technology. Designed to consume less power and space than their predecessors' whilst providing more powerful performances. Multitech's 56K modems come as dual capacity – you can select either K56flex or V.90 upon installation and to change modes, simply reinstall the modem.

FEATURES:

- V34, 56K.
- Internet download at up to 56,000bps.
- Voice capability.
- Password secured.
- Non-volatile memory.
- 10 year warranty.

Lucent Technologies
Bell Labs Innovations

Model	MT 5600 ZDX-K 56K	MT 5600 ZDX-V 56K	MT 5634 ZPX
CCITT datacomms standards	V34, VFC, V32bis, V32, V23, V22bis, V22, V21		
Prop datacomm standards	N/A		
Datacomm speeds	300–56,000bps		
Error correction	V42, MNP4		
Data compression	V42bis, MNP5		
Command language	AT command set		
Data operating modes	Asynchronous		
CCITT fax standard/command set	V29ter, V27, V17, Class 1 and Class 2		V29ter, V27, V17, Class 1
Fax compatibility	Group III, 9,600bps – 14,400bps		
Line types	PSTN only		
Package contents	Modem, software (3½"), manual, AC adaptor, phone cable		
Dimensions (W×D×H)	114×142×31mm		157×86×18mm
Weight	0.3kg		0.125kg
Approval	BABT		
Warranty	10 years off-site		

DESCRIPTION	HIGHEST CCITT STANDARD	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
EXTERNAL						
MT 5600 ZDX-K-56K Data/Fax Modems	V34 + Fax	88-32-41	63.26	65.69	65.03	64.38
MT 5600 ZDX-V-56K Voice/Data/Fax Modems	V34 + Fax	87-89-19	77.82	80.81	80.00	79.20
Mac Kit – MacCable & data/fax software	–	49-18-21	27.99	29.06	28.77	28.48
INTERNAL						
MT 5634 ZPXI 56K Voice/Data/FaxModems **(ISA)**	V34 + Fax	45-00-38	76.71	79.65	78.85	78.06
MT 5634 ZPX 56K Voice/Data/FaxModems **(PCI)**	V34 + Fax	47-42-96	75.58	78.48	77.70	76.92
Digital Convertor (Modem Mate)	—	49-17-94	46.60	48.75	48.26	47.78
Modem Cable Reel	—	49-18-06	7.60	8.49	8.25	7.99

OTHER ITEMS
FOR COUNTRY ADAPTORS SEE PAGES 747, 748

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FAX MODEMS – DESKTOP & INTERNAL

MultiTech





The MultiTech range of MultiModems combine ease-of-use with the latest in technology. Designed to consume less power and space than their predecessors.

Lucent Technologies
Bell Labs Innovations

MT 2834 ZDX-V
- V34 33,600bps high speed.
- Voice capability.
- Trio Communication suite V5.0 software.
- 10 year warranty.

MT 2834ZPXI-Internal
- V34 33,600bps high speed performance with Voice.
- Help screens and remote configuration.
- Password secured.
- Non-volatile memory feature.

Model	MT 2834 ZDX-K 28.8	MT 2834 ZDX-K 33.6	MT 2834 ZPXI 33.6
CCITT datacomm standards	V34, VFC, V32bis, V32, V22bis, V22, V23, V21		
Prop. communication standard	N/A		
Datacomm speeds	300–28,800bps	300–33,600bps	
Error correction	V42, MNP4		
Data compression	V42bis, MNP5		
Command language	AT command set		
Data operating mode	Asynchronous		
CCITT fax std/command set	V29ter, V27, V17, Class 2		
Fax compatibility	Group 3; 9,600bps – 14,400bps		
Types of line	PSTN only		
Package contents	Modem, software (3½"), manual, AC adaptor, phone cable		
Warranty	10 years off-site		5 years

DESCRIPTION	HIGHEST CCITT STANDARD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
EXTERNAL						
Multitech MT 2834 ZDX-K 28.8 Data/Fax	V34+Fax	77-80-64	66.06	68.60	67.91	67.23
MT 2834 ZDX-K 33.6 Data/fax	V34+Fax	83-54-02	63.49	65.93	65.27	64.62
MT CC12 ZDX-K Rack Chassis	—	83-98-93	311.04	◆	319.75	316.55
MacKit – MacCable & data/fax software	—	49-18-21	27.99	29.06	28.77	28.48
INTERNAL						
MT 2834 ZPXI 33.6 Data/Fax	V34 + Fax	87-88-09	60.47	62.79	62.16	61.54
Digital Convertor (Modem Mate)	—	49-17-94	46.60	48.75	48.26	47.78
Modem Cable Reel	—	49-18-06	7.60	8.49	8.25	7.99

OTHER ITEMS
FOR COUNTRY ADAPTORS SEE PAGES 747, 748

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FAX MODEMS – EXTERNAL/USB MODEMS

MultiTech Systems



MAC KIT NOW AVAILABLE



The full-featured **MultiModemII** corporate systems modem provides high-speed data and fax communications, a robust feature set and the best interoperability with other modems.

FEATURES:
- V90/56K or V34/33.6K.
- Class 1 or Class 2 faxing at 14.4Kbps.
- Synchronous or asynchronous support.
- Dial-up or 2-wire leased line support.
- Central site setup and control of remote modems.
- LCD panel (on 5600 models) for system diagnostics and user configuration.
- Supports caller ID reporting.
- 11-bit support (76-23-48 only).
- Phone number storage.
- DTMF tone detection.
- 5 year warranty.

The **USB Portable** and the **MultiModemZBA USB Desktop Modem** and the new USB portable modem provide high speed data transfer and fax capabilities. In addition being fully USB compliant, installation is quick and easy.

FEATURES:
- V.90 56K/V.34 33.6Kbps and V.80 video.
- Class 1 and 2 faxing at 14.4Kbps.
- Portable version measures only 1″ × 3″.
- Multi-language data/fax software for Windows.
- Windows® 98 USB Compatible.
- Hot-swappable with other devices without rebooting.
- 10 Year Warranty.

Lucent Technologies
Bell Labs Innovations

Model	MT2834 BLK & MT5600BLK	MultiModem ZBA USB Desktop
CCITT datacomm standards	V90 or V34, V32bis, V32, V22bis, V22, V23, V21	V90, V34, V.FC, V32bis, V22bis, V22, V23, V21
Datacomm speeds	300-33,600bps or 56,000bps	300-56,000bps
Error correction	V42, MNP4	
Data compression	V42bis, MNP5	
Command language	AT command set	
Data operating mode	Asynchronous/Synchronous	
CCITT fax standards/ command set	V29ter, V27, V17, class 2 (class 1 for 56K model)	Class 1 & 2
Fax compatibility	V17, 14.4bps	
Types of line	Dial-up PSTN, 2 & 4 wire speed	
Package contents	Modem, software (3½″), manual, AC adaptor, phone cable	
Approval	BABT	
Warranty	5 years off-site	10 years off-site

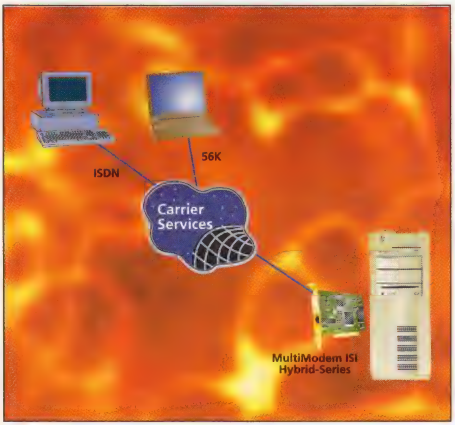
DESCRIPTION	HIGHEST CCITT STANDARD	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
MultiTech MT5600 BLK 56K Modem	V90 + Fax	49-53-99	213.10	◗	219.07	216.88
MultiTech MT2834 BLK 33.6 Modem	V34 + Fax	76-23-48	169.26	◗	174.00	172.26
MacKit – Mac cable and data/fax software	—	49-18-21	27.99	29.06	28.77	28.48
MultiTech MT5634MU 56K Portable USB Data Fax Modem	V90 + Fax	49-78-08	107.26	◗	110.26	109.16
MultiTech MT5634ZBA-USB, USB Desktop Modem	V90 + Fax	47-43-06	84.21	87.44	86.57	85.70

OTHER ITEMS
FOR COMMUNICATION SOFTWARE SEE PAGES 871–878
FOR COUNTRY ADAPTORS SEE PAGES 747–748

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MULTIPORT MODEM CARDS

MultiTech Systems



The **MultiModemISI** family puts high-speed, reliable modems on a card for remote access servers. The **Modem-Series** provides four or eight modems per card for companies that want to expand their remote access capabilities with V.90/56K support over analog phone lines. The **Hybrid-Series** provides two BRI ISDN connections and four built-in V.90/56K modems per card to handle dial-up calls from ISDN and 56K modems. It is ideal for companies that want a cost-effective digital 56K server solution.

Family Features:

- Provides four or eight ports.
- Includes operating system support for Windows 95, Windows 98, Windows NT, Citrix WinFrame and MetaFrame, SCO OpenServer, Novell NetWare, NetWare Connect, Linux and Multi-Tech RASExpress.
- Sustains data rates to 115.2K (ISA) and 230K (PCI) bps on all ports.
- PCI and ISA models available.



The **CommPlete 4000** communications server family provides up to 32 affordable high-speed dial-in remote access and dial-out data and fax sessions. This server supports BRI ISDN for a true digital solution and analogue WAN services on one chassis, making it ideal for small- and medium-sized businesses requiring remote access.

FEATURES:

- Scalable to 32 dial-in/dial-out analogue or ISDN ports using Multi-Tech serial, analogue modem, or hybrid ISDN/modem cards.
- 10/100MB Ethernet connectivity to an IP/IPX/LAN.
- V.90/56K and 128K BRI ISDN sessions supported.
- Industry-standard PPP/SLIP client support, as in Windows 95/98/2000, Windows NT, Citrix, Novell, SCO, Linux, and Mac OS.
- Dial-out data and fax support for IP/IPX networks.
- PAP and CHAP authentication.

	DESCRIPTION	BUS TYPE	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	MultiPort Hybrid Series ISDN/Analogue Modem Card – ISIHP-2S	PCI	49-18-40	645.66	➧	668.75	662.06
	MultiPort Hybrid Series ISDN/Analogue Modem Card – ISIHI-2S	ISA	46-68-19	633.59	➧	656.25	649.69
	MultiModem ISI5634/4 (4-port) Modem Card	PCI	47-17-17	492.04	➧	505.81	500.75
	MultiModem ISI5634/8 (8-port) Modem Card	PCI	47-22-63	769.16	➧	790.69	782.78
	MultiModem ISI5634/EC (4-port) Expansion Card	PCI	47-70-21	350.64	➧	360.46	356.86
NEW	CommPlete 4000 8 serial port RAS	—	50-17-66	1837.45	➧	➧	1870.00
NEW	CommPlete 4000 56K Modem RAS	—	50-30-91	2779.05	➧	➧	2800.00

OTHER ITEMS
FOR REMOTE ACCESS SOLUTIONS SEE PAGES 750–786

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FAX MODEMS – EXTERNAL

3Com U.S. Robotics

FEATURES: V90 5K Faxmodem data/fax – 47-35-89

- Includes V.90 standard and x2™ technology.
- Free Internet/online trials included – enables you to open the box, install the modem and surf the web.
- Windows Plug and Play.
- Point-and-click Windows software to manage your faxes and Internet connections.
- Integrated Flash ROM memory.
- Lifetime Warranty.



The **56K Professional Message Modem (45-14-29)** offers high quality faxmodem and answering machine functionality, providing answer phone and message management, plus Internet access, fax, e-mail and speakerphone facilities.

FEATURES:

- Includes V.90 56Kbps ITU Standare and x2™ technology.
- Stores incoming fax/voice messages when your PC is turned off.
- Full Duplex Speakerphone support.
- Built-in voice quality speaker, microphone and volume control.
- Fax On Demand up to 100 faxes can be stores for distribution.

FEATURES: 56K Message Modem – 45-13-36

- V.90 and ×2™ technology.
- Call discrimination.
- Fax on demand.
- Remote voice and fax message retrieval.
- Windows 95 Plug and Play.
- Full Duplex Speakerphone.
- Personal Voice Mail.
- Independant voice messaging.
- Stores approx 25 fax/35 voice messages.

3Com premier mail order partner

3Com 56K STANDARD COMPLIANT V.90

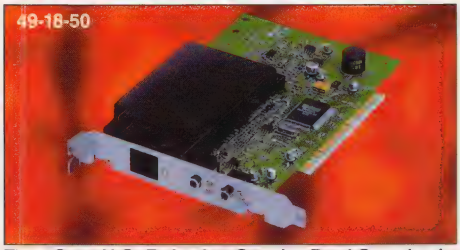
Model	V.90 56K Faxmodem	56K Message Modem	56K Professional Message Modem
CCITT datacomm standards	V.90, V34, V32bis, V32, V23, V22bis, V23, V21	V.90, V34+, V34, V32bis, V32, V23, V22bis, V23, V21	V90, V33+, V34, V32bis, V32, V22bis, V22, V21
Datacomm speeds	Up to 56kbps		300-56,000bps
Error correction	V42/MNP2-4		
Data compression	V42bis, MNP5		
Command language	AT Command Set		
Data operating modes	Asynchronous		
CCITT fax standard/ command set	V17, V27ter, V29, Class 1 & 2	V17, V27ter, V29, Class 1	V17, V27ter, V29 Group 111 Class 1&2
Approval	—		CE
Warranty	Lifetime limited and FREE technical support		Lifetime Limited

DESCRIPTION	HIGHEST CCITT STANDARDS	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
V.90 56K Faxmodem data/fax	V90+Fax	47-35-89	55.83	57.10	56.76	56.42
56K Message Modem	V90+Fax	45-13-36	72.54	74.19	73.74	73.30
56K Professional Message Modem	V90+Fax	45-14-39	77.00	78.75	78.28	77.81
Digital Converter (Modem Mate)	—	49-17-94	46.60	48.75	48.26	47.78
Modem Cable Reel	—	49-18-06	7.60	8.49	8.25	7.99

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FAX MODEMS – INTERNAL/EXTERNAL

3Com U.S. Robotics



The **3Com U.S. Robotics Courier Dual Standard V34 + Fax Modem (75-57-33)** provides data connection speeds of up to 56,000bps. With the use of data compression, a throughput of up to 115,200bps can be achieved and Group 3; 14,400bps fax compatibility is standard.

FEATURES:

- V34, 56K and x2™ high speed performance.
- Dial-back security with password.
- Universal Connect – detect and connects at the fastest possible speed.
- ASL – Adaptive Speed Levelling.
- Auto Fax/Data selection.
- Only 1 RJ-45 port on rear of modem.

The **U.S. Robotics 56K Voice Internal ISA** and the **new PCI** complies with oth the international V.90 56K ITU standard and x2™ protocols, allowing you to download from the Internet at speeds up to 56Kbps for a more productive and rewarding online experience.

FEATURES: 56K Voice Faxmodem Internal (46-25-38, 49-18-50)

- V.90 56Kbps.
- Fax speeds of up to 14,400bps.
- Personal Voice Mail-10 mailbox voice mail.
- Call discrimination – fax/data/voice.
- Remote voice message retrieval.
- Mailbox security.
- Speaker.

Networking pre-sales team
08701 66 33 22

Model	56K Voice Faxmodem Internal	56K Voice Winmodem Internal	Courier Dual Std V34 + Fax (External)
CCITT datacomm standards	V90, V34, V32bis, V32, V22bis	V90, V34+, V34, V32bis, V32, V22bis, V23	V34, V32bis, V32, V22bis, V22, V21, V23
Datacomm speed	300-56,000bps	300-33,600bps	300-56,000bps
Error correction	V42, MNP2-4		V42, MNP4
Data compression	V42bis, MNP5		
Command language	AT command set		
Data operating modes	Asynchronous		Synchronous
Bus type	16-bit ISA or 32-bit PCI	8-bit ISA	External
CCITT fax standard/ command set	V17, V27ter. V29 Class 1		V29, V27ter, V17, Class 1 & 2 V29, V27ter, Class 1
Fax compatibility	Group 3, 14,400bps	Group 3 EIA Class 1 & 2.0	Group 4: 14.400bps
Line types	Dial-up PSTN only		Dial-up PSTN, 2-wire leased line
Package contents	Modem, manual, Supervoice software, 1 months subscription to CompuServe and America On-Line	Modem, manual, SuperVoice s/w, Installation software, 1 month subscription to Netcom, Virgin Net, Uunet Pipex, AOL, Cable on-line and CompuServe.	Modem, AC adaptor, manual, QuickLinkII
Warranty	5 years off-site		

www.3com.co.uk

DESCRIPTION	BUS TYPE	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
3Com/USR 56K Voice Faxmodem **Internal**	16-bit ISA	46-25-38	66.81	68.33	67.92	67.51
3Com/USR 56K Voice Faxmodem **Internal**	32-bit PCI	49-18-50	42.95	43.93	43.67	43.40
Courier Dual Standard V34 + Fax **External**	—	75-57-33	156.21	◗	160.58	158.97

OTHER ITEMS FOR MODEM ACCESSORIES SEE PAGES 747–749

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ISDN ADAPTORS – PC CARD/INTERNAL/EXTERNAL



Eicon Technology's DIVA series of ISDN products offer a selection of multi-featured ISDN interface cards which provide desktop and notebook PCs with high speed remote access.

FEATURES:
- Easy installation; plug-n-play.
- Full Windows integration.
- Most cost effective: the DIVA Pro minimises connection costs with *active* ISDN performance.
- Compatible with all major ISPs.

The **DIVA 2.0™** is a low-cost, data-only solution for high-speed ISDN access to the Internet and corporate Intranets. Fully Plug and Play, it is available in both ISA and PCI bus formats.

The **DIVA Pro 2.0** Plug and Play interface card features a Digital Signal Processor (DSP), providing the remote user with the ability to connect to both digital and analogue devices over an ISDN line. In independent tests it was shown to be up to 4 times faster than passive ISDN cards.



DIVA External T/A Modem
The DIVA T/A ISDN Modem provides corporate telecommuters and home users with fast, easy and secure remote access over an ISDN line. Extremely easy to install and configure, the DIVA T/A ISDN Modem can additionally support up to two analogue devices such as telephones or fax machines, allowing you to talk on the phone and transmit data from the desktop simultaneously, over the same ISDN line.

FEATURES:
- External Terminal Adaptor.
- Operating System independent.
- 230.4Kbps serial port speed – plus on-board data compression.
- Two analogue ports for phone or fax **(Cat no 44-31-93 only).**
- Bandwidth On Demand (BOD) and Call bumping.
- Installation Wizard for Windows VT100 emulation support.
- V.120 rate adaption.

Model	Diva 2.0	Diva Pro 2.0	Diva Pro PC
Bus type	ISA PnP 16-bit. PCI 32-bit		PCMCIA II
Modem emulation	No	Yes	
OS Port	Windows 95, NT, Workgroups, DOS		
POTs (voice & fax)	Yes (optional)		No
Warranty	5 years		

Networking pre-sales team 08701 66 33 22

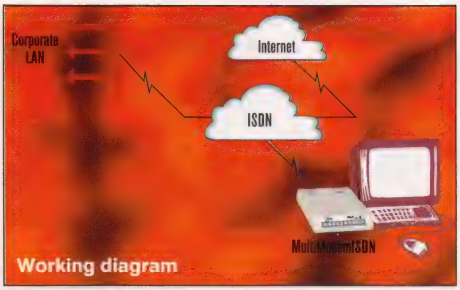
DESCRIPTION	EICON CODE	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Diva T/A ISDN External Modem	310-235-01	44-31-93	139.17	◗	144.15	142.71
Diva 2.0 ISA 16-bit	305-187-01	85-83-79	43.47	44.76	44.31	43.87
Diva 2.0 PCI 32-bit	305-941	85-83-86	43.16	45.15	44.70	44.25
Diva Pro 2.0 ISA 16-bit	305-191-001	85-83-93	139.17	◗	144.15	142.71
Diva Pro PC Card PCMCIA II	305-195-01	85-84-27	171.28	◗	176.07	174.31
International Adaptor Kit	—	44-47-14	22.27	25.00	24.25	23.52

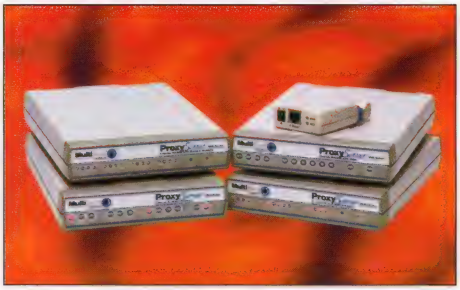
OTHER ITEMS
FOR RAS GUIDE SEE PAGE 750–751

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ISDN TERMINAL ADAPTOR

MultiTech Systems





The **MultiModem ISDN (IWay Hopper)** is a Basic Rate Interface ISDN modem that provides high performance and reliability for telecommuters and SOHO power users who require high speeds to send or download graphics, large files, video clips, or music files. The MultiModemISDN is ideal for anyone who wants affordable digital access to the corporate LAN and the Internet.

FEATURES:

- Provides Plug and Play operation for easy installation.
- Supports ML-PPP for bi-directional data transfer speeds up to 128Kbps.
- Transfers data at speeds up to 512Kbps with 4:1 compression using Microsoft Windows 95, Windows 98 or Windows NT.

The **ProxyServer** family provides shared Internet access over analogue, ISDN, leased, cable or DSL lines. An entire office can surf the Internet at the same time for the cost of one connection.

ISDN Features (44-90-63)

- Supports one BRI ISDN connection.
- Supports ML-PPP for 128Kbps bi-directional bandwidth.

3-Modem Features (49-31-33)

- Includes three built-in V.90/56K modems.
- Provides downloading bandwidth to 150Kbps.

Serial Port Features:

- Connects to an existing external analogue or ISDN modem to protect your initial modem investment.
- Dials on demand for Internet services.

Model	ProxyServer ISDN	ProxyServer 3-Modem	ProxyServer Serial	ProxyServer Dual-Ethernet
WAN Bandwidth	182Kbps	150Kbps	128Kbps	10Mbps
ISDN interface	4-wire S/T-type	—	4-wire S/T-type	—
LAN port	10Base-T (UTP) interface (Ethernet 802.3, 802.2 Ethernet II, SNAP	10Base-T (UTP)+10Base-T (BNC) interface Ethernet 802.3, 802.2 Ethernet II, SNAP	10Base-T (UTP) interface Ethernet 802.3, 802.2 Ethernet II, SNAP	10Base-T (UTP) interface Ethernet 802.3, 802.2 Ethernet II
WAN link	Built-in 2 B+D ISDN modem	3 built-in V90/56K modem	Built-in 2 B+D ISDN modem	—
Memory	4MB RAM expandable to 20MM (Flash ROM 1MB)			4MB (Flash ROM 1MB)
Power	115v AC – 240v AC 47/63Hz			
Dimensions	229 × 58 × 328mm			
Weight	1.7kg		2.04kg	1.7kg
Warranty	2 years return-to-base			

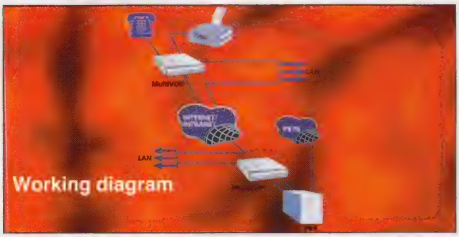
DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
MultiTech I-Way Hopper	83-52-44	126.93	▶	130.48	129.18
MultiTech MTPSR1-202ST ProxyServer with ISDN & S/T Interface	44-90-63	246.74	▶	253.65	251.11
MultiTech MTPSR3-200 ProxyServer – 56K 3-Modem	49-31-33	405.71	▶	417.07	412.90
MultiTech MTPSR3-100 ProxyServer 3-port Serial	49-18-32	176.03	▶	180.96	179.15
MultiTech MTPSR1-100 ProxyServer 1-port Serial	47-18-73	122.18	▶	125.60	124.34
MultiTech MTPSR1-120 ProxyServer 10Base-T Dual-Ethernet	47-18-80	330.37	▶	339.62	336.22

OTHER ITEMS
FOR ISDN GUIDE SEE PAGES 750, 751

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

VOICE OVER IP GATEWAYS

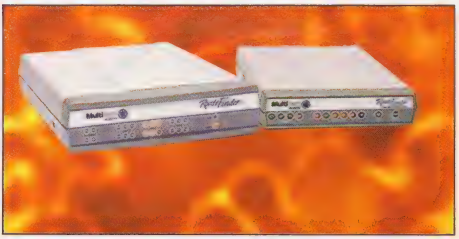
MultiTech Systems



The **MultiVOIP voice over IP gateways** provide predictable, real-time, toll-quality voice and fax communication over your existing IP data network or the Internet. These turnkey solutions are ideal for companies that want to save money on long distance interoffice voice and fax communication.

FEATURES:

- Up to eight voice/fax ports for communication over an existing IP network or the Internet.
- Compatible with 10Base-T Ethernet LANs, routers and WANs without any changes to existing infrastructure.
- Voice comp. to 6.3kbps per call using ITU G.723.
- Support for any fax device.
- No integration with a server or desktop PC required.



MultiTech RouteFinder Multi-Protocol Routers
The RouteFinder family provides secure and seamless LAN-to-LAN routing by connecting two or more LANs using a Wide Area Network service. A three port RouterFinder is ideal for central offices with leased line service that are supporting three branch connections. The one-port RouteFinder is suitable for central offices using Frame Relay to support multiple branch connections.

The **MultiTech 600 Series Intelligent Serial interface cards** are multi-port serial accelerator cards expanding the access capacity of a multi-user host or communications server. They feature buffered serial port technology and provide four or eight high-speed ports via a single ISA or PCI bus expansion slot and offers 460kbps per port.

Model	MultiVOIP 2port	MultiVOIP 4-port	MultiVOIP 8-port
LAN port	10Base-T interface (Ethernet, 802.3, 802.2, Ethernet II or SNAP)		
Command port	RS-232C/D; RJ-45 interface (19.2kbps asynchronous)		
Memory	2MB (Flash ROM 1MB)		
Management	SNMP management (Flash upgradable)		
Power supply	115v AC or 240v AC (optional), 50/60Hz		
Approvals	FCC part 15 & 68, UL 1950, IC, CE Mark		
Dimensions (W×D×H)	158×229×36mm	442×203×95mm	
Weight	0.93kg	3.4kg	
Warranty	2 years		

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
MultiTech 2-port Voice Over IP Gateway	49-32-07	741.43	◗	762.19	754.57
MultiTech 4-port Voice Over IP Gateway	49-54-66	1352.85	◗	◗	1376.82
MultiTech 8-port Voice Over IP Gateway	49-95-50	1719.54	◗	◗	1750.00
MultiTech 4-port Expansion Card (upgradable from 4 to 8 ports)	49-70-81	800.75	◗	823.17	814.94
MultiTech ISI4608/ISA 8-Port Serial Cards ISA	46-05-47	172.00	◗	176.82	175.05
MultiTech ISA4608/PCI 4-Port Expansion Serial Card PCI	49-22-65	172.00	◗	176.82	175.05
MultiTech ISA4608/PCI Expansion Serial Card PCI	49-49-49	196.92	◗	202.43	200.41
MultiTech RouteFinder MTASR3 3-Port 10Base-T/5	49-17-91	507.25	◗	521.45	516.24
MultiTech RouteFinder MTASR1-100 1-Port 10Base-T/2	49-31-07	370.21	◗	380.57	376.76

OTHER ITEMS
FOR NETWORK PRODUCT INDEX SEE PAGES 638–639

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

ISDN TERMINAL ADAPTORS

3Com U.S. Robotics Hayes



The **US Robotics ISDN Pro TA** is ideal for home office, small office and telecommuting – make voice calls and transmit data over one line at the same time. Over twice as fast as 56Kbps, you can communicate at 128Kbps. It offers double connection compatibility with a USB port and a high speed serial port. In includes the 3Com ControlCenter configuration and diagnostic software which allows AutoUpdate for automatic downloading of new 3Com software. It supports the latest communication standard such as Caller ID, and Call Waiting, and also AODI: Always On/Dynamic ISDN for constant connection to ISPs or corporate servers over D channel.

FEATURES:

- Fast Internet access – 128Kbps speed.
- Easy Updates – your TA automatically downloads updates.
- Supports Customer Calling Features including: Caller ID, call waiting.
- Professional fax features receive and send to/from and ISDN or analogue device.
- AODI support: Always On/Dynamic ISDN for constant connection to ISPs or corporate remote access servers over D-channel.



Hayes ACCURA ISDN (ISDN2) is now **fully compatible with BT Highway**.
Performance is four times the throughput of V.34 modems and twice the throughput promised by 56kbps modems.

The provision of 2 analogue ports lets you use a fax modem, phone, or fax machine, over an ISDN line when needed.

FEATURES:

- **BT Highway compatible**
- Multilink PPP.
- V.42bis compression.
- 460.8kbps maximum throughput.
- V.120/V.110 rate adaption.
- Bandwidth-on-demand.
- Dial back security (40 users).
- Flash upgradable.

3Com premier mail order partner

Model	USR ISDN Pro TA	Hayes Accura-ISDN
No. of ports	RS232, USB, Analogue	2× analogue
DTE connectors	RS232	V.24/RS232
Data rates	ISDN BRI 230,000bps	2,400-460,800bps Async
Rate adaptation	V120, Multilink PPP	V.120, V.110, X.75, Multilink PPP
Command language	AT Command Set	
Data operating modes	Asynchronous	
Package contents	TA, power, USB, and RJ-45 ISDN cables	TA, line cable, power supply, configuration and installation, utility software
Warranty	5 year limited warranty	2 years off-site

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
3Com/USR ISDN Pro Terminal Adaptor	49-19-10	111.82	◆	114.95	113.80
Hayes Accura ISDN Terminal Adaptor	84-19-84	168.45	◆	174.47	172.73

OTHER ITEMS
FOR RAS GUIDE SEE PAGE 750, 751

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ISDN TERMINAL ADAPTORS

3Com U.S. Robotics

Courier I-Modem ISDN with V. Everything®

The **Courier I** range of modems from **3Com/U.S. Robotics** offers the flexibility of both high speed analogue and ISDN connectivity in one single desktop product. At speeds of up to 64kbps, Courier I-modem is ideal for data intensive applications, such as file transfer, remote login to networks and intensive Internet and World Wide Web access. With award winning V.Everything™ technology, I-modem is compatible with the widest number of data speeds from V.34+ at 33.6kbps down to 300bps.

FEATURES:

- ×2™ technology.
- Integrated V.34+Fax modem.
- Multiple rate adaption standards.
- Free Quick Link II data/fax software.
- Flash ROM upgradable to V90 standard.
- User configurable dial security.
- Free lifetime technical support.



3Com premier mail order partner

All Modem functions are carried out through the ISDN Line. There is no phone cable in the kit to plug into a PSTN Wall socket.

Model	Courier I-modem with ISDN/V34 (Internal)	Courier I-modem with ISDN/V34 (External)
CCITT datacomm standards	V34, V32, V22bis, V22, V23, V21	
Prop. datacomm standards	V34+, V.FC, V32terbo, HST 16,800, HST 14,400	
Datacomm speeds	Analogue up to 56,000bps; ISDN up to 64kbps	
Error correction	V42, MNP 2-4	
Data compression	V42bis, MNP5	
Command language	Extended AT Command Set	
Format	Full length ISA Card	External
Data operating modes	Asynchronous	
CCITT fax standard/command set	V17, V29, V27 ter, Class 1, Class 2.0	
Fax compatibility	Group 3; 14,400bps	
Line types	ISDN BRI	
Package contents	Courier/ISDN cable, BT Tail end, Data/fax software, Internet on-line trials and free Internet Guide	
Dimensions (W×D×H)	Full length ISA Card	270×165×40mm
Weight	0.21kg	0.68kg
Approval	BABT	
Warranty	5 years off-site	

DESCRIPTION	HIGHEST CCITT STANDARD	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Courier I – **External**	V34/ISDN+Fax	84-18-74	208.56	◗	216.02	213.86
Courier I – **Internal**	V34/ISDN+Fax	83-85-40	182.43	◗	188.95	187.06

OTHER ITEMS FOR RAS GUIDE SEE PAGE 750–751

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ISDN TERMINAL ADAPTORS/USB

ELSA

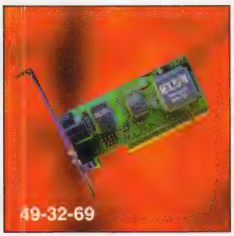


The **MicroLink ISDN 4U** offers households and small companies a flexible and powerful network connectivity and Internet access solution.
- Shared Internet gateway with integrated 4-port network hub.
- Simultaneous Internet access for up to 4 computers via a single ISDN connection.
- Convenient stand-alone solution for shared access to printers and file servers.

The **ELSA LANCOM™ 800 Office** ISDN access router offers application sharing across the network and can allow users to access the Internet via a single WAN connection.
- ISDN Internet access router and gateway for office applications.
- Unlimited LAN users, remote access and IP network connectivity.
- Flexible HTML-based configuration tools and Windows®-based LAN.

ELSA LANCOM Wireless
With the **ELSA LANCOM** wireless and AirLancer products, notebook or destkop PCs can access the net via radio.
- Supports Windows 95, 98, 2000, NT 4.0, Windows CE (pending), Linux (pending).
- Range – up to 300m outdoors and 30m in buildings.

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	ELSA LANCOM Office 800	49-56-23	189.57	➧	196.35	194.39
	ELSA LANCOM Wireless L-2	47-94-85	365.96	➧	376.21	372.45
NEW	ELSA ISDN 4U TA	48-94-80	166.06	➧	172.00	170.28



ELSA MicroLink™ ISDN USB
As combined e-mail, voice and data/fax Messaging, this product is compatible with the widest range of ISDN data and voice applications.
- ISDN data transfer at up to 128,000bps.
- Self powered via USB port.
- Telephone answering machine and mailbox facility.
- EuroFile Transfer and fax software for ISDN.

ELSA MicroLink™ ISDN PCI
The Plug & Play ISDN board ELSA MicroLink ISDN PCI is the complete solution for ISDN from ELSA for Windows 95/98/NT 4.0 PCI bus.
- Comprehensive software package.
- Automatic software installation with the program CD-Setup.
- Up to 64,000bps (send/receive). Easy Internet access.
- Drivers for Windows NT, Windows 95/98 OS/2 and Linux.

MicroLink™ ISDN Internet is a fun, smart, compact desktop adaptor that connects direct to a Basic Rate ISDN line (BRI). With integrated CAPI support you can access the Internet at speeds up to 128Kbps. ELSA-RVS-COM intelligent ISDN communications software is supplied to ensure you have data, fax and voice functionality. You can send and receive faxes, make an ISDN telephone call, and access FTP sites or shareware web pages to download the latest games and music tracks.
- Faster access to the Internet with ISDN connectivity.
- Integrates a software answering machine, for storing messages.
- Remote access maintenance and flash memory support.
- 6-year ELSA warranty.

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	ELSA MicroLink ISDN USB (external)	49-17-22	67.60	70.73	70.02	69.32
	ELSA MicroLink ISDN USB (external)	49-17-22	67.60	70.73	70.02	69.32
NEW	ELSA MicroLink ISDN Internet TA	48-17-19	58.60	60.85	60.24	59.64

OTHER ITEMS
FOR NETWORK PRODUCT INDEX SEE PAGES 638–639

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

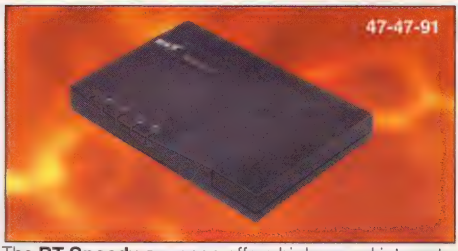
ISDN TERMINAL ADAPTORS/PCI CARDS



BT Ignition Pro ISDN Terminal Adaptor With dual analogue ports and one USB port, the BT Ignition enables use of existing telephone and fax devices on the ISDN lines, whilst offering the speed advantage of ISDN for communications. Offers dual channel bonding, PPP for Internet access and simultaneous voice and data over single basic ISDN line. **Now features CD display.**

BT Expresslane 128 Series of ISDN Interface Card allows you to enjoy all the benefits of high-speed data transfer including Internet access.

The high performance **Expresslane Intelligent ISDN Interface Card** features an on board modem and facilities for 2 optional analogue devices. The intelligent ISDN card employs DSP technology for increased power.



The **BT Speedway** range offers high speed internet access with data exchange much greater than existing analogue modems.

The **Speedway PCI ISDN Card** is an inexpensive way to put ISDN2/2e or BT Highway capability into your PC. For those who do not wish to 'open' their PC, the **Speedway ISDN TA** version is ideal.

Features:

- High speed internet access — 64Kbps
- High speed data transfer rates — up to 128Kbps
- Send and receive e-mails and faxes
- Download video clips, music or pictures rapidly.
- Windows 95/98 compatible
- Serial port connection to your PC — Speedway TA only

Model	BT Ignition Pro ISDN TA	BT Expresslane Pro ISDN Interface Card	BT Expresslane 128 ISDN Interface Card
DTE connection	V24	—	
Number of ports	2 analogue telephony ports (1 × USB port)	2 channels	
Data rates	2,400-64,000bps (128,000bps with bonding – synchronous)		
Rate adaption	V110 & V120		V120
Protocol support	Point to Point protocol (PPP)	CAPI, WAN Miniport/RAS, Synchronous PPP & MLP	IDI, CAPI 2.0, TAPI, COM-Port, Synchronous PPP & MLP
Command language	AT Command set		
Data operating modes	Synchronous/Asynchronous PPP		
ISDN line specification	Euro ISDN compliant		
Software	Hyper Access Lite software,BT Internet software,driver suite	Microsoft ISDN software suite with Netmeeting 2.0, BT Internet software, driver suite	
Package contents	TA, manuals, mains adaptor, cables	ISDN Card, manuals, cables	
Warranty	5 year		

To exchange files with colleagues, customers or suppliers, they should have BT Ignition with Fast File Transfer themselves or similar compatible software and an ISDN Terminal Adaptor.

DESCRIPTION	NUMBER OF PORTS	MAX. DATA RATE	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
BT Speedway ISDN PCI Card	—	64,000bps	47-48-01	33.96	35.53	35.17	34.82	✂
BT Speedway ISDN Terminal Adaptor	—	64,000bps	47-47-91	67.93	71.07	70.36	69.66	✂
BT Ignition Pro ISDN – TA	2 (1 × USB)	64,000bps	49-32-64	203.96	◗	211.25	209.14	✂
BT Expresslane 128 PCI Internal (with fax s/w) ISDN Card	2	64,000bps	49-31-45	39.43	41.25	40.84	40.43	✂
BT Expresslane Pro PCI Internal ISDN Card	2	64,000bps	49-18-49	174.99	◗	181.25	179.44	✂

OTHER ITEMS FOR ISDN GUIDE SEE PAGE 750–751

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ISDN ADAPTORS – INTERNAL PCI/ISA

EICON



Eicon Technology's DIVA Server BRI are high performance, active ISDN server cards that provide both digital and analogue connectivity. Ideal for corporate servers that need to support high-speed Internet access, remote LAN connectivity. With these ISDN Cards, a single server can support a full range of call types over one ISDN line. On-board Digital Signal Processors enable communciations with digital modems, analogue modems, GSM-compatible mobile phones and fax machines.

FEATURES:

- PC server-based, Plug and Play ISDN interface card.
- Supports two calls simultaneously on one BRI line.
- Both digital and analogue communcations over ISDN.
- Full compatibility with Microsoft BackOffice Small Business Server.
- Scaleable solutions for growing applications.
- Support for all popular server operating systems.
- Full CAPI 2.0 compliance.
- High-speed processor off-loads server processing.
- Can be upgraded with software downloads from Eicon's website.

EICON TECHNOLOGY

Connecting People to Information.®

Model	DIVA Server BRI-2M	DIVA Server BRI-2M
Bus Type	ISA 16-bit	PCI 32-bit
Data rates	14.4Kbps — fax; 36.6Kbps modem; 128Kbps — ISDN	
Rate Adaption	V110, V120, MLPPP, CAPI 2.0	
Operating Modes	Synchronous/Asynchronous	
Fax Compatibility	14.4Kbps Group 3 and Group 4 (CAPI)	
Warranty	5 Years	

DIVA ISDN

www.eicon.com

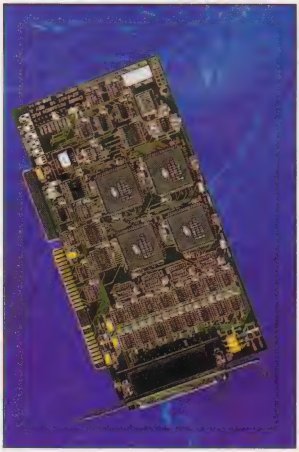
DESCRIPTION	BUS TYPE	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Diva Server BRI-2M ISDN Card	ISA 16-bit	44-53-28	295.82	➧	306.40	303.34
Diva Server BRI-2M ISDN Card	PCI 32-bit	46-81-23	295.82	➧	306.40	303.34

OTHER ITEMS FOR NETWORK CABLE GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

HIGH-SPEED SERIAL INTERFACE CARDS — CHASE RESEARCH

The **Chase Research IOXTRA** (2 port), **AT-Fast** (4,8 and 16 port) and **PCI-Fast serial I/O cards** offer ultra high speed performance to meet the requirements of even the most demanding applications, including high speed communications with ISDN Terminal Adaptors (ISDN modems), high speed modems and other serial devices.
The IOXTRA, AT-Fast and PCI-Fast can be quickly and easily installed, to get you up and running in a matter of minutes. Typical applications include web browsing, remote control (for high speed links between remote PCs), Internet access, direct serial link (serial input/output) and many more.



FEATURES: IOXTRA/AT-Fast (ISA Bus)/ PCI-Fast (PCI-Bus)

- 2, 4, 8 or 16-460kbps ports.
- 32KB/64KB buffering.
- Hardware/software flow control.
- Jumper selectable I/O & interrupts.
- Full modem control (not 16 port).
- Support for all major operating systems (inc. Win NT, 95, 3.x, Citrix, UNIX etc).

CHASE RESEARCH
CONNECTING THE WORLD

8 port & 16 port supplied complete with octopus cables or distribution box respectively. NB: the 10XTRA and 4 port cards do not come with cables.

For further information on Chase products visit their Web site:- **www.chaser.co.uk**

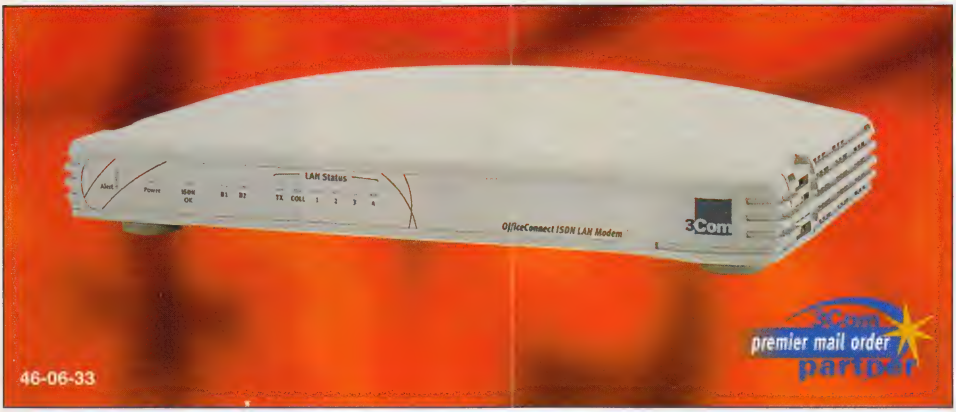
Model	IOXTRA	AT-Fast 4	AT-Fast 8	AT-Fast 16	PCI-Fast 4	PCI-Fast 8	PCI-Fast 16
No. of ports	2	4	8	16	4	8	16
Bus type	ISA/EISA				PCI		
Card format	8-bit	½ card	½ card	¾ card	Short card		
Baud rates	Up to 460.8kbps						
Port interface	DB9 (DTE)	RJ-45 (DTE)	DB25 (DTE)	DB25 (DTE)	RJ-45 on card	DB25 Octopus	DB25
Drivers supplied	SCO UNIX, SCO Open Server, ODT3, Windows 3.1, Win 95, Windows for Workgroups, Windows NT 4.0						
Warranty	Lifetime warranty						

DESCRIPTION	NO OF PORTS	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Chase IOXTRA	2	84-56-67	47.90	49.28	48.79	48.30
Chase AT-Fast 4 (ISA)	4	84-57-15	68.90	70.71	70.00	69.30
Chase AT-Fast 8 (ISA) (cables included)	8	84-56-98	141.73	➧	143.57	142.13
Chase AT-Fast 16 (ISA) (cables included)	16	84-57-08	252.75	➧	255.71	253.15
Chase PCI-Fast 4	4	87-74-60	139.61	➧	141.42	140.01
Chase PCI-Fast 8 Octopus DB25 (cables inc.)	8	87-74-84	241.44	➧	244.28	241.84
Chase PCI-Fast 16 (cables included)	16	87-75-25	310.03	➧	313.57	310.43
2 port Cable DB9-DB9 1.5m	—	86-56-92	9.65	9.98	9.95	9.90
4 port RJ-45 patch Cable – Male and Female DB25 Convertors	—	86-57-02	9.65	9.98	9.95	9.90

OTHER ITEMS FOR ISDN GUIDE SEE PAGES 750–751

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

REMOTE ACCESS SOLUTIONS



3Com's OfficeConnect ISDN LAN Modem allows 10 users to share files, printers, fax machines and other peripherals making it ideal for use in a small office and small business environment.
You can connect your telephone, answering machine, fax or analogue modem to the ISDN Modem and run Internet access over one ISDN line. And with a standard Web browser and 3Com's WebWizard guides you can set up the unit in a matter of minutes.

FEATURES:

- Connection of multiple analogue devices (phone/fax/modem) with Ringer Equivalency number (REN) of three per port.
- Automatic adjustment of data session speed to place or receive a voice or fax call.
- Simultaneous use of two analogue devices.
- Delivers 128Kbps line speeds.
- Built-in automatic EASY-LAN services provide automatic networking addressing to the attached workstations.
- Combining an additional external hub allows total LAN connectivity for up to 10 users.

KEY BENEFITS:

- **Easy to install.** Simply plug in the cables and run any standard Web browser from an attached computer. 3Com's built-in Wizards guide you through installation.
- **Best value.** Priced between a modem and a router, the LAN Modem gives small offices an integrated, economical solution for local networking and shared Internet access.
- **Compatible.** Connect to any ISP supporting the industry-standard Point-to-Point Protocol (PPP).
- **Integrated communications.** The LAN Modem intelligently adjusts bandwidth to permit efficient use of the ISDN link, allowing simultaneous voice and data connectivity.
- **High performance.** Allows near instant call set-up and teardown; provides throughput up to 512Kbps with Multi-link PPP and data compression.
- **Part of the award-winning OfficeConnect family.** As business requirements change, add other functions such as high-speed networking, Internet access, remote access, or print-sharing capabilities.

DESCRIPTION	3COM PART NO	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
OfficeConnect ISDN LAN Modem	3C891A	46-06-33	265.09	◗	274.57	271.82
WAN Port X.21 Cable and Terminal Adaptor to X 21 cable	3C409004	89-26-10	32.72	35.20	34.14	33.12
WAN Port V.24 and Terminal ADaPortor to V.24 cable	3C409000	89-26-27	32.72	35.20	34.14	33.12
WAN Port V.35 and Terminal Adaptor to V.35 cable	3C409001	89-26-34	51.99	53.45	52.92	52.39
OfficeConnect Fax Server (NetWare/WIN NT)	66298600-746	83-02-01	961.84	◗	975.60	965.84

OTHER ITEMS
FOR 3COM SWITCHES SEE PAGES 687–690
FOR 3COM HUBS SEE PAGES 666–671

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

REMOTE ACCESS SOLUTIONS



The **SuperStack II Remote Access System (RAS) 1500** consists of two stackable components that integrate multiprotocol remote access server and WAN router technology with high-performance 56Kbps (V.90) and/or ISDN modems, offering customers a complete remote access solution. The Intelligent Access technology will automatically support dial-in access for SOHOs (Small Offices/ Home Offices) and mobile users, LAN to LAN connection for branch to headquarters data access and dial-out services for LAN to ISP/Internet access. Consisting of a base router stack unit, expansion stack unit and multipler user-installable I/O cards, the SuperStack II RAS 1500 offers unprecedented configuration flexibility. Two expansion units can be fully integrated with the base unit via 3Com's patent pending StackNet (Firewire) interconnect allowing up to 24 ports of full wire speed.

FEATURES:

- Allows remote access to the SME company network for branch offices, mobile workers, teleworkers, customers and suppliers.
- Integrated solution: combines multiple WAN, LAN and remote access routing into one device.
- FlexStack cost-effective architecture from two to 24-ports: start with base unit, add ports with I/O cards or expansion units.
- Universal Connect technology automatically recognises analogue and digital calls.
- Support for dial-in, dial-out and LAN to LAN applications.

Networking pre-sales team
08701 66 33 22

Model	SuperStack II RAS 1500
Console ports	RS232, Slots for 2 I/O cards
LAN interface	10Base-T (RJ-45)
WAN interface	Synchronous, Frame, Relay V.35, X.21
Protocols	IP, IPX, AppleTalk, spoofing, MLPPP
Dimensions	460×540×165mm
Weight	5.7kg

DESCRIPTION	PART NO	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
SuperStack II Remote Access System 1500	3C421600	47-07-33	998.66	◗	◗	1016.35
SuperStack II Remote Access System 1500 ISDN BRI Card	3C421810	47-07-40	531.74	◗	546.63	541.16

OTHER ITEMS FOR MODEMS SEE PAGES 752–761

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NETWORK DISK DRIVES — TIXI



Tixi-Mail Box

FEATURES:

- Internet Surfing – Internet surfing and remote access up to 128Kbps.
- Automatic E-mail sending & receiving – The Tixi-Mail Box sends & receives E-Mails automatically at any scheduled time even if the PC is off.
- Multi-Pop Query – Tixi connects via the Internet to several ISPs for users which use various providers.
- New Mail Signal (NMS) – The ISP calls the Tixi-Mail box as soon a new mail has arrived. The Box calls back automatically and picks up your E-Mail.
- Get Mail Button – The Tixi-Mail Box checks your ISP accounts by a simple press of a button.
- Automatic Fax sending – The Tixi-Mail Box sends your faxes automatically – even when your PC is off (except ISDN versions).
- Automatic Fax reception – The Tixi-Mail Box receives your faxes automatically – even if your PC is off (except ISDN versions).
- E-Mails as fax – Just type a fax number into your E-Mail client and send text E-Mails to fax machines (V.90 versions only). Express-Mail without Internet – E-Mail incl. attachments from PC to PC in conjunction with any E-Mail client, directly via telephone line – even if the PC is off.
- Compatibility – All Tixi-Mail Boxes are fully compatible with Windows 3.11, 95/98 NT 3.51 & 4.0 & Novell for Networks.
- Extendable Flash RAM – Protects your data during power failures. Memory expansion enables you to receive also large data files.

Tixi-Mail Box Network Edition

In addition the Tixi-Mail Network Edition Range also offers the following feature's

- Automatic E-Mail Sorting – Grouped E-Mails in one E-Mail account are automatically sorted and distributed within the LAN.
- E-Mail Server for Networks – Automatic E-Mail distribution to the individuals within the LAN. A 5 user network license is included in every box.

Tixi-Mail Box Pro

In addition to the functions of the Tixi-Mail Network Edition described above, the Tixi-Mail Box Pro offers the following additional features:

- E-Mail Firewall (100% secure) – The Tixi-Mail Box Pro E-Mail Firewall protects your PC network 100% against hackers – guaranteed. Internetsurfing is not possible due to the high security standard.
- Internal E-Mail Distribution – Internal E-Mail send & receive from & to the individual within the LAN.

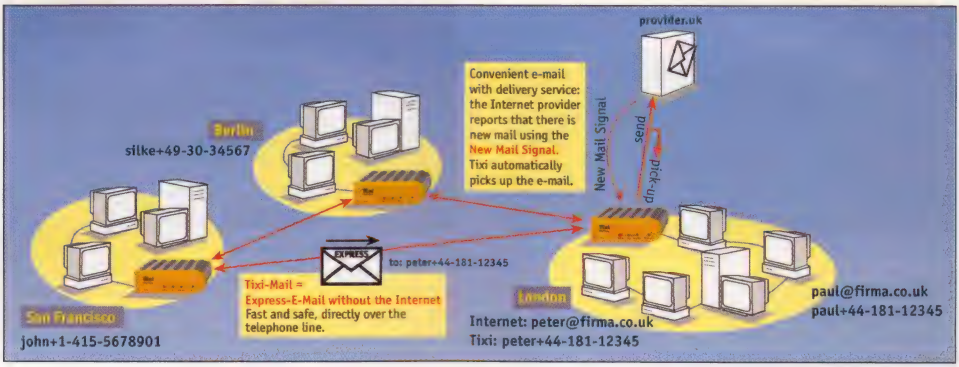
Networking pre-sales team 08701 66 33 22

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
TIXI MAIL BOX					
Tixi MT22-M5 2MB (Fax & Email) 56K/V.90 Mail Box	49-56-77	77.24	79.00	78.53	78.05
Tixi MT22-D2 (Email) ISDN 2×64K Mail Box	49-56-84	129.99	➧	134.64	133.29
TIXI MAIL BOX NETWORK EDITION					
Tixi MT22-M5/NE 2MB (Fax & Email) 56K/V.90 Mail Box	49-13-28	175.48	➧	180.39	178.59
Tixi MT22-D2/NE 2MB (Email) ISDN 2×64K Mail Box	49-09-07	175.48	➧	180.39	178.59
TIXI MAIL BOX PRO					
Tixi AW42 4MB (Fax & Email) Mail Box Pro	49-57-32	153.10	➧	158.58	156.99
Tixi MW42-M5 4MB (Fax & Email) 56K/V.90 Mail Box Pro	49-56-91	209.97	➧	215.85	213.69
Tixi MW42-D2 (Email) ISDN 2×64K Mail Box Pro	49-57-01	209.97	➧	215.85	213.69

OTHER ITEMS FOR COMMUNICATIONS SOFTWARE SEE PAGES 871–878

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MODEM/ISDN EMAIL SERVER TIXI



Until now small companies do not use e-mail very much in day-to-day business communication. Why? when e-mail is supposed to be so simple and inexpensive?

Because along with the advantages, e-mail via the Internet has a number of disadvantages compared to the fax of phone. For instance, there is the difficult installation, no guaranteed transmission time to the recipient, no privacy when sending and receiving over the Internet and no security for the PCs connected. You do not get direct delivery of e-mail to the recipient and any notification of when to collect any new mail from the Internet.

The recipient also has to pick up his/her mail from the provider. When the mailbox is checked it often turns out that there isn't even any mail there. All these factors make using e-mail difficult.

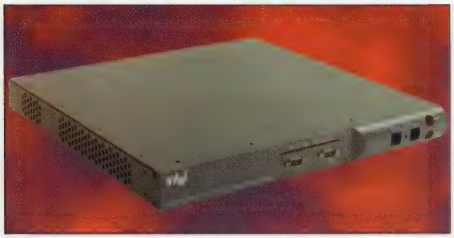
Therefore many companies stick to the fax and the phone, because they are fast, easy and reliable.

Networking pre-sales team
08701 66 33 22

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
TIXIMAIL BOX MEMORY EXPANSION					
TixiMail Box 8MB Flash RAM Expansion Module	49-54-31	65.44	67.95	67.27	66.60
TixiMail Box 16MB Flash RAM Expansion Module	49-95-25	119.67	➧	123.95	122.71
TixiMail Box 32MB Flash RAM Expansion Module	49-70-58	231.66	➧	239.95	237.55
USER LICENCES					
Tixi 5 User License for any MailBox	49-23-46	108.62	➧	112.50	111.38
Tixi 10 User License for any MailBox	49-50-16	195.51	➧	202.50	200.48
Tixi 20 User License for any MailBox	49-13-18	325.85	➧	337.50	334.13
Tixi 50 User License for any MailBox	49-08-99	706.00	➧	731.25	723.94

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

SERVER ACCELERATORS & GIGABIT SWITCHES — INTEL





Intel offers a family of e-Commerce accelerators that restore speed to servers running secure translations by offloading the task of encryption/decryption, improving overall site performance, reliability and response time. Some e-Commerce accelerators even manage Web traffic among servers.
Intel NetStructure 7110 e-Commerce Accelerator. Assumes the task of Secure Socket Layer (SSL) encryption/decryption, restoring server speed and boosting Web site performance by up to 50 times. This drop-in, scalable appliance processes up to 200 secure connections per second.
Intel NetStructure 7180 e-Commerce Director. Assumes the task of Secure Socket Layer (SSL) encryption/decryption, restoring server speed and boosting Web site performance by up to 150 times. Traffic management using actual response times and Layer 7 control eliminates errors, enables site managers to prioritise secure traffic for all customers or URLs and balances traffic among servers.

The **Intel NetStructure 470 Switches** offer eight ports in the following configurations: **470T** Switch – six 100/1000Base-T ports and two GBIC ports, which can be populated with 1000Base-LX, 1000Base-SX or 1000 LH GBICs. **470F** Switch – eight fixed 1000Base-SX ports. Both are Layer 2 switches with an integrated management agent that provides an embedded Web server, SNMP, RMON, console/telnet session capabilities and management via Intel Device View. The **NetStructure 480T Routing Switch –** Intelligent Layer 2/3/4 switching with twelve 1000Base-T ports and four GBIC ports to overcome distance limitations.
These new Intel Gigabit Switches deliver non-blocking switching performance and advanced traffic management features such as 802.1p priority queuing and 802.1Q VLAN support.
The 480T Routing Switch also offers Layer 2, 3 and 4 traffic profiling and bandwidth shaping to ensure QoS in the most complex environments.

Intel InBusiness Small Office Network is the ideal way to cost-effectively connect PCs and provide shared access to files, printers and the Internet. Increase productivity and communication through enhanced employee collaboration. Lower your ongoing maintenance costs through remote management and administration. The Intel InBusiness Small Office Network is a simple and comprehensive solution that lets you focus on managing your business rather than your network. It includes an embedded operating system, storage, e-mail, mirroring, an 8-port hub, a built-in modem, two network adaptors and a firewall to protect your network against intrusion.

	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	**NetStructure 7110** 56-bit e-Commerce Accelerator	66-94-75	6300.00	➧	➧	6300.00
NEW	**NetStructure 7110** 128-bit e-Commerce Accelerator	66-17-57	6300.00	➧	➧	6300.00
NEW	**NetStructure 7180** 56-bit e-Commerce Director	66-53-44	19400.00	➧	➧	19400.00
NEW	**NetStructure 7180** 128-bit e-Commerce Director	66-30-86	19400.00	➧	➧	19400.00
NEW	**NetStructure 470T** 8 port Switch	66-17-18	1807.97	➧	➧	1840.00
NEW	**NetStructure 470F** 8 port SX Fibre Switch	66-70-21	3432.77	➧	➧	3450.00
NEW	**NetStructure 16 port** L3 Routing Switch	66-22-63	4788.00	➧	➧	4800.00
NEW	**NetStructure 16 port** L3 Routing Switch+2 PSU	66-49-47	5400.00	➧	➧	5400.00
NEW	**NetStructure 480T** L3 Software Upgrade	66-12-46	2605.36	➧	➧	2625.00
NEW	**InBusiness Small Office Network** 466MHz Analogue	66-08-38	1129.98	➧	➧	1150.00

OTHER ITEMS
FOR NETWORK PRODUCT INDEX SEE PAGE 638, 639

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

REMOTE ACCESS SOLUTIONS

intel

The **Intel Express 8100 Entry Level Router** provides a flexible and secure branch office solution supporting VPNs, traditional WAN routing and easy Internet access. With tunneling and optional 144-bit encryption, you can use the Internet for WAN routing to significantly reduce WAN connection costs. Easy installation and management enable seamless integration into your network.

Unique features include:

- **10/100Mbps auto-sensing** – Plug and Play LAN support for Ethernet and Fast Ethernet networks.
- **Strong Security** – A powerful combination of encryption (optional), authentication, Network Address Translation (NAT) and filtering
- **Multiple Protocol Support** – Worldwide ISDN (U and ST interface), Frame Relay, PPP and X.25

FEATURES:

- **Includes support for both IP & IPX routing** – robust IP & IPX Packet filtering and Dynamic Routing Protocol Support.
- **Supports bridging of other protocol** – controlled bridging lets you dictate which protocols to bridge and save on WAN cost.
- **Supports up to 4 WAN** links for connections to remote sites.
- **World-wide ISDN support** – EuroISDN (ETSI), National ISDN 1 & 2, AT&T (5ESS), Nortel DMS-100, NTT INS-NET/KDD (Japan).
- **X.31 support** – X.25 over the D-channel (9.6kbps).



- **Timer profiles and access controls** – up to 16 timer profiles provide means of controlling inbound ISDN and dial-up connections.
- **Easy implementations** – seamless integration into any Ethernet LAN and simple migration from 10-100Mbps environments; easy remote configuration over LAN & WAN.

Protect ME! with APC
SEE PAGES 641-645



Networking pre-sales team 08701 66 33 22

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Intel Express 8100-ISDN BRI-S/T Interface Router	44-82-91	268.41	◗	275.92	273.16
Intel Express 8100 Router Frame Relay and PPP Leased Line	45-02-27	345.24	◗	354.91	351.36
V.24 DTE Cable for Express 8100 Router	49-32-00	47.93	49.77	49.27	48.78
V.36 DTE Cable for Express 8100 Router	49-54-60	47.93	49.77	49.27	48.78
X.21/V.11 DTE Cable for Express 8100 Router	49-95-47	47.93	49.77	49.27	48.78
V.35 DTE Cable for Express 8100 Router	49-70-76	62.91	65.32	64.67	64.02
Intel Express 9200 Router ER9200BUK	87-17-57	416.14	◗	427.79	423.51
Intel Express 9300 Router ER9300BUK	87-48-10	424.10	◗	435.97	431.61
Intel Express 9510 Router ER9510STUK	87-17-59	606.81	◗	623.80	617.56
Intel Express 9515 Router ER99515STUK	87-30-88	690.52	◗	709.85	702.75
Intel Express 9530 Router ER9530UK	87-53-44	606.81	◗	623.80	617.56

OTHER ITEMS
FOR A RANGE OF UPS PRODUCTS SEE PAGES 640–649

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

REMOTE ACCESS SOLUTIONS

Shiva The remote access specialists intel



Shiva Multi-protocol remote access solutions address issues such as ease of use deployment, performance optimisation, breadth of protocol and applications support, security, scalability and management to make your remote use as close as possible to a direct networking connection.

ShivaIntegrator LAN to LAN Systems
What is ShivaIntegrator?
ShivaIntegrator is a range of LAN-to-LAN systems which provide cost-effective, secure connections among central offices, power branch offices and remote satellite locations. The product range consists of three models.
How is ShivaIntegrator used?
ShivaIntegrator is used by corporations who need to give remote locations permanent or on-demand access to the central network. ShivaIntegrator connects to the LAN and provides a Wide Area Network connection over ISDN, Frame Relay, Leased Lines, X.25 or Dialup lines.

Model	Integrator 150	Integrator 200	Integrator 500
ISDN PRI	No		Yes up to 90 channels
ISDN BRI	Yes – 1 or 2 B channels	Yes – 2 or 4 B channels	Yes – up to 6 B channels
Serial Ports X.21, V.25 or V.24	Yes – 1 or 2	Yes – 1 or 3	Yes – up to 9 V.24 or V.35, or up to 27 X.21
G.703	No		Yes up to 2
Services on serial ports			
Frame Relay	Yes		
Access Speeds	64-512kbps	64kbps-2Mbps	
PVCs (per box)	30	60	90
Leased line; max speed	Yes; 512kbps	Yes; 2Mbps	
X.25	No	Yes	
Sync Dial-up	Yes		
Async Dial-up	No	Yes	No

DESCRIPTION	PART NO	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
ShivaIntegrator 500	SHV500F-Chassis	44-57-51	1667.23	◗	◗	1696.76
Triple X.21 Interface Card	750-1961	44-57-68	801.94	◗	824.39	816.15
Primary Rate ISDN 30B Channels	750-1966	44-57-75	2969.08	◗	◗	2991.46
9-Line X.21 Interface Card	750-1963	44-57-82	1683.59	◗	◗	1713.41
ShivaIntegrator 200, 2 ISDN BR/1 Serial Interface	SHV200ET DUAL BRI	44-57-99	1540.85	◗	◗	1580.00
ShivaIntegrator 200, 1 ISDN BR/3 Serial Interface	SHV200ET SERIAL 3	44-58-09	1590.33	◗	◗	1618.50
ShivaIntegrator 200 X.21 Cable	MIS-CBL-X21	44-58-16	73.98	76.82	76.05	75.29
ShivaIntegrator 150 – Dual X.21	SHIVA 150-XI-XI	44-58-23	739.06	◗	759.75	752.15
ShivaIntegrator 150 – ISDN & X.21	SHIVA 150-IS-XI	44-58-30	922.94	◗	948.78	939.29

OTHER ITEMS FOR NETWORK CABLES GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

REMOTE ACCESS SOLUTIONS

Shiva. The remote access specialists

intel

Shiva Multi-protocol remote access solutions address issues such as ease of use deployment, performance optimisation, breadth of protocol and application support, security, scalability and management to make your remote use as close as possible to a direct networking connection.
The **LanRover/E Plus Chassis** is available in either Ethernet or Token ring versions.

FEATURES:

- Multi-protocol Dial out and LAN to LAN connectivity.
- Mix and match ISDN and Analogue X.25.
- Easy management from a central or remote location.
- Several hardware options.



V.34 Modem Card

- High-quality magnetics in Digital Access Arrangement (DAA) provides higher throughput on lower-quality telephone lines.
- Turned V.42bis compression reduces latency.

ISDN BRI Card

- Intelligent ISDN BRI module
- 68302 20 MHz microprocessor
- Supports multiple independent dial-in users

Async Card

- Reliable highly integrated design.
- Supports data transfer rates up to 115.2kbps.

Model	LanRover/E Plus 8 Slot Chassis	LanRover/T Plus 8 Slot Chassis
Network type	Ethernet	Token Ring
LAN connector	RJ-45/BNC/AUI	DB-9
Hardware options	Async, V.34 modem and BRI S/T packs	
Software options	Connectivity, security and power suite kits	
Dimensions (W × D × H)	430 × 170 × 100mm	
Weight	5.5kg	

Networking pre-sales team **08701 66 33 22**

DESCRIPTION	SHIVA PART NO.	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
LanRover/E Plus 8 slot Chassis only*	LPE57-CHAS-XX	89-52-15	912.12	➧	937.65	928.27	✂
LanRover/T plus 8 slot Chassis only*	LPT57-CHAS-XX	89-52-22	1509.83	➧	➧	1536.58	
Async **Single Pack**	CRD-AS-US-1	89-52-46	57.25	59.45	58.86	58.27	✂
Async **4 Pack**	CRD-AS-US-4	89-52-53	231.30	➧	237.78	235.40	✂
Async **8 Pack**	CRD-AS-US-8	89-52-60	463.38	➧	476.35	471.59	✂
V90 **Single Pack**	CRD-MDM-56K	48-17-58	139.55	➧	143.46	142.03	✂
BRI S/T **Single Pack**	CRD-BRI-S-1	89-52-84	255.97	➧	263.14	260.51	✂

***Now comes with PowerSuite as standard.**

OTHER ITEMS FOR NETWORK CABLE GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

REMOTE ACCESS SOLUTIONS

Shiva The remote access specialist™ intel



ShivaPort Atom provides network managers with outstanding performance, manageability and comprehensive security. It's the ideal single solution for delivering simple terminal access, network printing, modem pooling and accelerated remote access.

FEATURES:

- **Multi-Protocol Support** – supports both TCP/IP and LAT, making it simple for users to connect to a wide range of hosts over the same serial line.
- **Printing Support** – allows printers to be networked and shared amongst users.
- **Remote Access Features** – offers modem pooling with dial-up services over SLIP/CSLIP and PPP with IP filtering to support restricted service access. 86-84-93
- **Comprehensive Security** – a host security features includes support for industry-standard TACACS, RADIUS and Security Dynamics SecureID, ShivaPort validates remote users before they can connect to the network.
- **Simplified Administration** – can be managed locally via an admin port, or remotely via Telnet.

Model	Atom 08-TX-UK	Atom 16-TX-UK
Number of ports	8 or 16 asynchronous serial ports	
Network type	Ethernet	
Port type	RJ-45/AUI	
Line speed	Up to 57kbps	
Dimensions (W×D×H)	310×220×60mm	
Weight	2.3kg	

Networking pre-sales team 08701 66 33 22

The **Shiva AccessPort ISDN client router** installs in the home, or small office to make ISDN access easy, secure and above all, fast. With support for both **IP** and **IPX routing,** along with bridging, Shiva makes it easy for users to connect to the internet and the corporate LAN. The Shiva AccessPort has two 64kbps ISDN channels delivering a total of 128kbps of throughput with compression that can easily mean 512kbps bandwidth.



FEATURES:

- Supports simultaneous IP routing, IPX routing and bridging.
- Guides the network manager or remote user through the initial installation step by step.
- Displays connection status for each ISDN channel simultaneously on the on-screen LED panel.
- Supports an unlimited number of local users.
- Uses STAC compression to boost throughput to 512kbps.
- Supplied with ISDN and Ethernet cables.
- Two versions available one with analogue ports, one without.

Model	Shiva AccessPort – Analogue	Shiva AccessPort
Base configuration	One ethernet, one ISDN BRI S/T, one RS232 Admin and two analogue telephone ports	One ethernet, one ISDN BRI S/T
LAN connector	10Base-T/RJ-45	
Dimensions (W×D×H)	210×150×35mm	
Weight	1.05kg	

DESCRIPTION	PART NO.	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
ShivaPort Atom 8-port Terminal Server	ATOM-08-TX-UK	86-84-93	682.90	➧	702.02	695.00
ShivaPort Atom 16-port Terminal Server	ATOM-16-TX-UK	86-85-03	987.42	➧	➧	1004.91
Shiva AccessPort – Analogue	SAP2-ST-UK	84-83-27	349.45	➧	359.23	355.64
Shiva AccessPort/D	SAP-XDST-UK	87-19-16	271.79	➧	279.40	276.61

OTHER ITEMS FOR NETWORK CABLE GUIDE SEE PAGE 599

www.action.com THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

REMOTE ACCESS SOLUTIONS

CISCO SYSTEMS

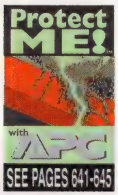
The **Cisco 800 series** incorporates the best of the IOS WAN optimisation features including routing protocols such as EIGRP and Triggered RIP. There are also ISDN features such as Time-of-Day Access Lists and AO/DI. Finally, the VPN features can significantly reduce WAN cost for telecommuters.

- One 10Base-T Ethernet port with an optional four port hub (803).
- One ISDN WAN interface.
- Two optional analogue telephone ports for voice or fax (803).
- A RISC processor for high performance.
- Field expandable flash and DRAM.
- An attractive, desktop/wall mountable enclosure.
- Four optional IOS software features sets.

The **Cisco 800 series** router provides enhanced security and proven reliability through the power of Cisco IOS software tailored for small offices and telecommuters. The Cisco 800 series connects small offices and corporate telecommuters to the Internet or to the corporate LAN via ISDN, IDSL or serial connections (Cisco 805) such as Frame Relay, leased lines (up to 512 Kbps), X.25 or asynchronous dial-up. With the Cisco 800 Series, service providers can deliver value-added offerings, such as managed data network services, Virtual Private Networks (VPNs), managed security services, point-of-sale (POS) services and secure Internet access to small-office customers.
The Cisco 800 series routers have enhanced security features such as an integrated stateful firewall and IPSec encryption to enable VPNs. These features allow small offices and telecommuters to do business over the Internet while protecting valuable resources.



- **Low Cost of Ownership**
  By leveraging Cisco IOS software, customers using the Cisco 800 series can reduce operational costs for training, management, installation and deployment. The Cisco 800 series provides key WAN and ISDN optimization features and the Cisco 803 and Cisco 804 routers also offer an "all-in-one" solution that combines telephone, fax and data communication on a single access line.
- **Proven reliability**
  Because Cisco 800 series routers are based on the same proven Cisco IOS technology used on 80% of the Internet, small offices can depend on them day after day, year after year.



Networking pre-sales team
08701 66 33 22

CISCO SYSTEMS
RESELLER

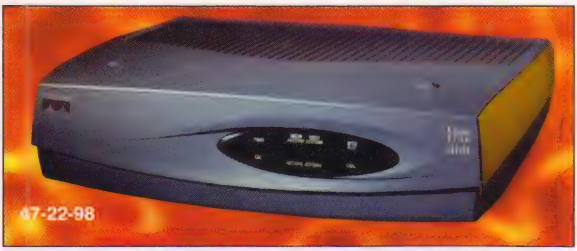
DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Cisco 801 ISDN Access Router	47-22-74	339.39	▶	348.89	345.40
Cisco 803 ISDN Access Router+4-port Hub	47-22-81	460.28	▶	473.17	468.44
Cisco 805 Frame Relay Router	49-32-18	512.08	▶	526.42	521.16
Cisco 800 Series IP-only Routing Feature Pack	49-06-41	16.04	18.00	17.46	16.94
Cisco 800 Series IP and IPX Routing Feature Pack	49-06-58	159.82	▶	174.00	168.78

*Shipped with Internet Ready Feature Pack as standard.

OTHER ITEMS
FOR NETWORK CABLES GUIDE SEE PAGE 549
FOR A RANGE OF UPS PRODUCTS SEE PAGES 640–649

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶ Save £££'s!
▶▶ Check live stock
▶▶ Track order status

REMOTE ACCESS SOLUTIONS — CISCO SYSTEMS



The **Cisco 1720 access router** delivers optimised security, integration and flexibility in a desktop form factor for small- and medium-sized businesses and small branch offices that want to deploy Internet/intranet access or virtual private networks (VPNs).
The Cisco 1720 access router is a modular solution that provides all the components needed to build a secure VPN, including the access router, high-speed encryption, VPN tunnel server and security features such as robust IPSec support and an optional integrated firewall. This all-in-one solution enables businesses to minimise the time and expense required to deploy and manage networks.

FEATURES:
- One auto-sensing 10/100 Fast Ethernet port.
- Two modular WAN slots that support 1600, 2600 and 3600 data WAN interface cards.
- An auxiliary port (AUX) for dial-up management or low-speed asynchronous connections (of up to 115.2Kbps).
- An expansion slot on the motherboard to support future services such as hardware-assisted encryption and compression.

Cisco IOS Firewall Feature Set
The Cisco IOS Firewall feature set provides integrated firewall functionality for every perimeter of the network. Available for a wide range of Cisco IOS-based routers, the Cisco IOS Firewall offers sophisticated security and policy enforcement for connections within an organisation (intranet) and between partner networks (extranets), as well as for securing Internet connectivity for remote and branch offices.
The Cisco IOS Firewall feature set is configurable via Cisco ConfigMaker 2.1, an easy-to-use Microsoft Windows 95, 98, NT 4.0-based software tool. The Cisco IOS Firewall feature set provides the following benefits:
- Powerful security integrated within Cisco IOS-based network infrastructure.
- Robust, scalable routing with full set of Cisco IOS routing capabilities.
- Scalability/Flexibility to operate in different Cisco IOS environments with various performance requirements.
- Seamless interoperability with Cisco IOS-based features.
- Investment protection by leveraging multiprotocol router with integrated firewall functionality.

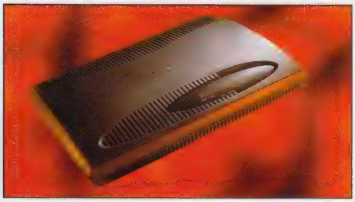
CISCO SYSTEMS RESELLER

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Cisco 1720 Router with IP software	47-22-98	614.77	➧	631.98	625.66
Cisco IOS Firewall feature set for Cisco 1700 series	49-06-65	461.53	➧	478.04	473.26
Cisco IOS Firewall feature set for Cisco 1700 series+Encryption	49-06-72	718.89	➧	739.02	731.63
Cisco WIC-IT 1 port Serial WAN interface card	47-01-11	206.41	➧	212.19	210.07
Cisco WIC-2T 2 port Serial WAN interface card	47-01-42	358.52	➧	371.34	367.63
Cisco WIC-2A/S 2 port Async/Sync Serial WAN interface card	47-01-59	256.08	➧	265.24	262.59
Cisco WIC-1B-S/T 1 ISDN BRI S/T	47-01-35	256.08	➧	265.24	262.59
Cisco WIC-1DSU-T1 port 4-Wire 56/64Kbps DSU/CSU WAN interface card	47-01-28	358.52	➧	371.34	367.63

OTHER ITEMS FOR CISCO SWITCHES SEE PAGES 692–693

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

REMOTE ACCESS SOLUTIONS



Cisco Systems 1600R Series of Internet/Intranet access routers combines all the benefits of multi-protocol routing and transparent bridging with unmatched performance, configuration, flexibility, affordability, integrated security and management.

FEATURES:

- Capable of supporting a variety of high speed carrier infrastructures, frame relay, ISDN, leased lines, basic telephone service, switched 56, SMDS and X.25.
- Provides multi-protocol routing for IP and IPX and transparent bridging for all other protocols.
- Enables concurrent support for data, voice and video over the same WAN line.
- Now with up to 30% increased performance for memory intensive applications.

CISCO SYSTEMS



The **Cisco 2500** offers targeted routing services. Dual LAN configuration gives you a low cost method for connecting two Ethernet LAN's or segmenting a network. Integrated router/hub modes provide LAN and WAN connectivity for branches and remote offices.

FEATURES:

- Flash memory for easy software image maintenance.
- Dual-LAN configuration for low cost network segmentation.
- Integrated hub for easy management.
- Easy to install and configure.

CISCO SYSTEMS RESELLER

Protect ME! with APC
SEE PAGES 641-645

Model	1601R-CH	1603R-CH	1605-R-CH	2501-CH	2503-CH
Base configuration	One ethernet and one synch/asynch serial port	One ethernet and one ISDN BRI S/T port	Two ethernet and one ISDN BRI S/T port	One ethernet and two serial ports	One ethernet, one serial and one ISDN BRI S/T port
Console port	RJ-45		RJ-45 & AUI	RJ-45	
Dimensions (W×D×H)	283×220×556mm			444×268×444mm	
Weight	1kg		1kg	4kg	

Networking pre-sales team 08701 66 33 22

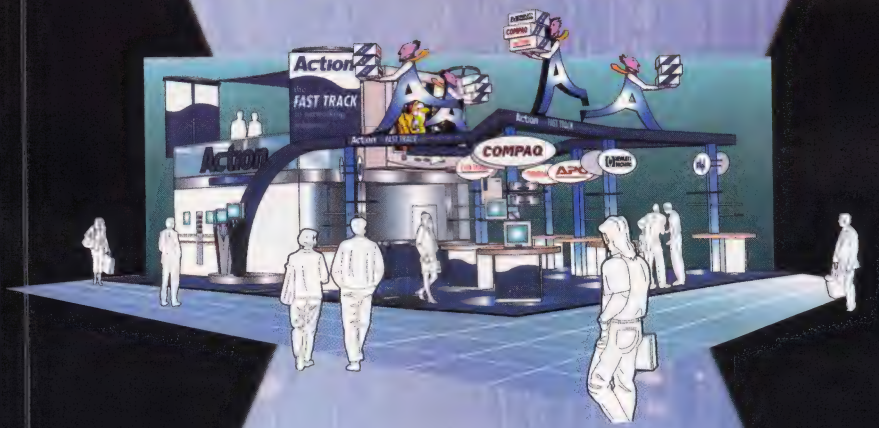
DESCRIPTION	CISCO PART NO	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Cisco 1601 Ethernet/Serial Modular Router 1 Open Slot*	1601-RCH	84-67-07	761.42	◗	788.65	780.76
Cisco 1603 Ethernet/ISDN Modular Router 1 Open Slot*	1603-RCH	84-67-14	761.42	◗	788.65	780.76
Cisco 1605-R2- Ethernet/ISDN Modular Router 1 Open Slot*	1605-RCH	46-26-00	761.42	◗	788.65	780.76
PLUS Feature Pack – for 1600 series	CD16-AP-11.3	84-67-21	206.41	◗	212.19	210.07
Cisco 2501 Router	2501-CH	87-14-42	1131.26	◗	◗	1160.00
Cisco 2503 Router	2503-CH	87-14-59	1386.48	◗	◗	1421.70
IP Software for 2500 Series	CD25-C-11.3	87-14-66	15.50	17.40	16.88	16.37
IP/IPX Software for 2500 Series	CD25-B-11.3	87-14-73	206.41	◗	212.19	210.07

*Includes IOS IP only software.

OTHER ITEMS
FOR NETWORK CABLE GUIDE SEE PAGE 599
FOR A RANGE OF UPS PRODUCTS SEE PAGES 640–649

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

COME AND SEE THE VERY LATEST IN e-COMMERCE TECHNOLOGY AT THE ACTION.COM STAND



AT NETWORKS TELECOM 2000 BIRMINGHAM NEC JUNE 27– 29 2000 STAND L70, HALL 19

Action
The No.1 Source for Computers & Supplies

www.action.com
0800 333 333

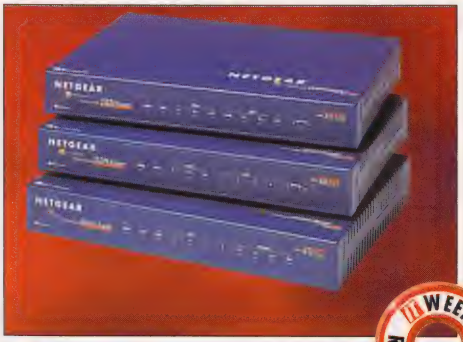
REMOTE ACCESS SOLUTIONS

NETGEAR

The **NETGEAR RT328, RT338** and **RH348 ISDN Routers** provide Internet access, LAN-to-LAN intranet connection, and remote access for a single user, a small business or a branch office over ISDN. The RT328 and RH348 routers implement Network Address Translation (dNAT+), which enables an entire workgroup to access the Internet with a single-user account. These routers also provide dial-on-demand, bandwidth-on-demand, and automatic disconnect to minimise connection charges.

FEATURES:
- Integrated 4 port hub (RH348 only).
- Auto-sensing 10/100 Mbps port (RT338).
- Standards and ISP compatibility.
- GUI/DHCP to simplify installation.
- dNAT + to save ISP and toll charges.
- Security and control.
- Reliable, high-speed Internet access.

The **NETGEAR RM356 56K Modem Router** is home office Internet access in a box. Home offices can now connect multiple PCs to the Internet to access e-mail download information, programs or games without special phone lines. Up to four PCs (with network cards) can directly connect to it, to share access to the Internet using one ordinary phone line and one Internet Service Provider account.



IT WEEK RECOMMENDED

FEATURES:
- DHCP server.
- Dynamic NAT+.
- Dial-on-Demand routing.
- Built-in V.90 modem.
- Unlimited PC connections.
- Free 24 × 7 support.

PC MAGAZINE EDITORS' CHOICE

Model	NETGEAR RT-328UK	NETGEAR RT338	NETGEAR RH348	NETGEAR RM356
Base configuration	One ethernet, one ISDN BRI S/T port, one RS232 Admin, two analogue telephone ports		Four ethernet, one ISDN BRI S/T, one RS232, Admin, two analogue telephone ports	Four ethernet, one RS232 Admin port, internal modem
LAN connector	10Base-T/RJ-45, AUI	10Base-T/RJ-45 100Base-TX/RJ-45	4 × 10Base-T/RJ45	
Routing protocols	TCP/IP, IP, RIP, Filtering			
Line speed	512kbps (128kbps without compression)			V90 (56kbps)
Compatability	Windows 95/98/2000/NT			
Dimensions (W × D × H)	181 × 253 × 35mm			
Weight	1.3kg			

Networking pre-sales team 08701 66 33 22

DESCRIPTION	PART NO	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
NETGEAR RT328 ISDN Router	RT328UK	44-68-39	173.93	▶	178.80	177.01	
NETGEAR RT338 ISDN Router	RT338	46-31-12	213.81	▶	219.80	217.60	NEW
NETGEAR RH348 ISDN Router	RH348UK	46-13-26	213.81	▶	219.80	217.60	
NETGEAR RM356 56K Modem Router	RM356UK	46-67-54	177.04	▶	182.00	180.18	

OTHER ITEMS
FOR NETGEAR HUBS SEE PAGES 672–675
FOR NETGEAR SWITCHES SEE PAGE 695

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶ Save £££'s!
▶▶ Check live stock
▶▶ Track order status

INTERNET SERVERS

D-Link



The **D-Link DP-601M** is a 10/100MB Dual Speed Internet Server with an integrated V.90 56K modem. It provides the perfect Internet access solution. Simple and quick to install, but with all the power of more expensive routers, it provides the necessary advanced technology and functions for multi-user Internet access using its integrated 56K modem.

D-Link's DP-802 multifunction Internet/print server provides Internet connection and printer sharing for a small workgroup. The DP-802 allows your entire workgroup to access the Internet, then prints their documents on a network printer.

FEATURES

- RS-232 460Kbps baud COM port.
- 56Kbps modems/128Kbps BRI ISDN TA support.
- Modem/ISDN TA sharing.
- Print server supports TCP/IP, NetBEUI, AppleTalk (DP-802).

Share ISP Accounts
With only one ISP account your entire network can log on to the Internet.

Share Modems
Through one modem, your entire network can access the Internet. Modem sharing eliminates the need for a separate modem, phone line and phone charge for each individual user.

Analogue and ISDN Support
The device provides 2 high-speed COM ports (1 for DP-802) through which analogue modems or ISDN terminal adaptors can be attached. This allows Internet access to be flexibly made through either the ordinary phone line or the higher-speed ISDN.

Cost-saving Dial-on-Demand
The device's dial-on-demand function allows your network to establish a line connection when needed without requiring users' intervention.

Easy Configuration
Setting up the device for running is easy. You can select to administer the Internet server in-band through a Windows-based program, through Telnet, or through a web browser.

Auto-sensing 10/100Mbps LAN Port
Network connection is through an 10/100Mbps dual-speed port that supports both Ethernet and Fast Ethernet.

Share Printer (DP-802)
The print server function supports IP, NetBEUI and AppleTalk protocols.

Model	D-Link DP-601M	D-Link DP-802
Network topology	10Base-T & 100Base-TX (RJ-45)	
Network op. systems supplied	Windows NT, Windows 95, NetWare native NPS, TCP/IP, UNIX*, AppleTalk	
Network port	RJ-45	
Printers port	RJ-11 (modem)	1 parallel
Package contents	Print server, manual, software, AC adaptor	
Dimensions (W×D×H)	164×119×30mm	
Weight	0.245kg	

*These print servers do not support Unix 5.42

Networking pre-sales team 08701 66 33 22

DESCRIPTION	FOR USE WITH	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
D-Link DP-601M 10/100 LAN+ Serial+56K Fax/Modem Built-in	10Base-T & 100Base-TX	48-17-59	141.72	➧	145.69	144.23
D-Link DP-802 10/100Mbps Internet/Print Server	10Base-T & 100Base-TX	49-44-03	98.96	➧	101.73	100.71

OTHER ITEMS FOR NETWORK CABLES GUIDE SEE PAGE 599

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

REMOTE ACCESS SOLUTIONS

MOTOROLA

Vanguard Instant Access Range The **Vanguard Instant Access** family consists of 3 products – models 60, 70 and 80. All models contain the following:

- 10Base-T RJ-45 Ethernet interface and switch to support either direct connection to a PC, or connection to an Ethernet hub or switch.
- RJ-45 ISDN Basic Rate Interface (BRI) capable of placing 2 independent ISDN calls at 64kbps.
- 9-way D-Type serial connector for console connection to the device (engineering use only).
- Power connector with external power supply.

In its standard configuration the Vanguard can support up to 250 computers.

The Vanguard 60: 1 Ethernet, 1 ISDN BRI
The Vanguard 60 is suitable for locations requiring dial based data access to remote services or locations.

The Vanguard 70: 1 Ethernet, 1 ISDN BRI, 2 POTS (Telephone)
The Vanguard 70 is suitable for locations requiring both voice and data access to remote networks or services. Existing analogue devices can access ISDN based voice services without additional equipment. The Vanguard 70 is particularly suitable for small or home office environments that can benefit from the combination of data and voice services over a single ISDN BRI access line.

The Vanguard 80: 1 Ethernet, 1 ISDN BRI, 2 POTS, 1 Serial
The Vanguard 80 adds a serial data interface to the features offered by the model 70, enabling connection to synchronous leased line services. This is suitable for locations requiring fixed data access to remote services and can support up to one additional ISDN 64Kbps data call or two ISDN voice calls when the serial interface is enabled. The serial interface supports V35, V36, X21 and RS232 interface standards via custom cables (supplied separately). Speeds of up to 256Kbps are supported. The serial interface may also be configured for asynchronous operation for use with external modems.



Performance data pre-processing
The Vanguard records statistics measured at configurable pre-defined intervals to provide a log of processed metrics. The facility enables a network manager to retrieve performance data from an Instant Access device at irregular and lengthy intervals yet still have accurate detailed measures of peaks, averages and other performance measurements.

Voice support
The Vanguard supports an extensive range of analogue voice supplementary services, often referred to as 'Star' services. Supplementary services supported include:

- Call Forwarding Unconditional (CFU).
- Call Forwarding Busy (CFB).
- Call Hold (HOLD).
- Calling Line Identification Presentation (CLIP).
- Call Waiting (CW).
- Multiple Subscriber Number (MSN).
- Outgoing Call Barring.

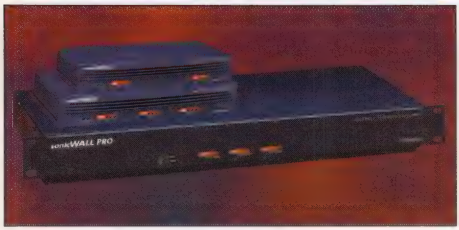
DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Vanguard 60 ISDN access device	49-13-01	319.70	➧	328.65	325.36
Vanguard 70 ISDN access device with two analogue ports	49-08-81	365.37	➧	375.60	371.84
Vanguard 80 Leased line and ISDN access device (two analogue ports)	49-39-28	478.31	➧	491.70	486.78

OTHER ITEMS FOR FULL RANGE OF UPS SEE PAGES 640–649

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NETWORK SECURITY FIREWALLS

sonic



SonicWALL protects Internet-connected businesses from hackers and intruders, preventing theft, destruction, and manipulation of critical business data. SonicWALL also prevents employees from accessing objectionable Web sites and newsgroups through content filtering. Additional features includes logging and reporting as well as IP address management.

SonicWALL is the first security appliance for small to mid-sized businesses needing a secure, affordable, and easy-to-administer solution to protect against Internet intruders.

SonicWALL is an award winning family of Internet Security Appliances that protect your network from intruders.

The SonicWALL family offer:

- Firewall Security
- Hacker/Attack Prevention
- IPSec VPN Internet Content Filtering
- Internet Content Filtering
- Network Address Translation
- Auto Update

SonicWALL is available in several models to best suit the needs of the network it is protecting:

- SonicWALL (10, 50, Plus) for Cable, DSL, SOHO, and Telecommuters
- SonicWALL DMZ for Small Offices, Professional Offices, Schools, and E-Commerce
- SonicWALL PRO for Medium to Large Single-Site or Branch Offices, Fast Ethernet and High-Bandwidth VPN

Content Filtering

Internet content filtering allows schools and businesses to create and enforce Internet access policies tailored to the needs of the organisation. The administrator selects categories to block or monitor, such as pornographic or racial intolerance from a pre-defined list. SonicWALL also supports customation of the Content Filter List, so sites may be added to the list to be blocked, or access to blocked sites granted. Users can be given a password to bypass the filter and give them unrestricted access to the Internet.

SonicWALL is a secure and affordable way to protect small networks, such as those using cable modems or DSL, from theft, destruction, and manipulation of critical business or personal data. SonicWALL's IPSec VPN option makes it the perfect solution for corporate telecommuters and small remote offices.
SonicWALL/10 supports 10 nodes on the LAN.
SonicWALL/50 supports 50 nodes on the LAN.
SonicWALL Plus supports an unlimited number of nodes on the LAN.

SonicWALL DMZ is ideally suited for the Internet security needs of schools, larger business networks, and e-commerce applications. SonicWALL DMZ supports an unmonitered number of nodes on the LAN, and includes a DMZ port ("De-Militarized Zone") to allow Internet users to access public servers, such as Web, FTP, and e-commerce servers.

SonicWALL PRO provides Internet security, Virtual Private Networking (VPN)and content filtering with high performance hardware to meet the needs of large, Fast Ethernet networks. SonicWALL PRO offers branch offices and large, single-site networks a comprehensive security system to combat intruders and secure important business data.

Features and Benefits:

- Stateful Packet Inspection
- Network Address Translation
- Java, ActiveX, Cookie, Proxy blocking
- Hacker Attack Prevention
- Alerts
- Network Access Rules
- Management sessions – MD5 encrypted passwords
- ICSA Certified
- DMZ Port (SonicWALL DMZ and SonicWALL PRO only)

Networking pre-sales team
08701 66 33 22

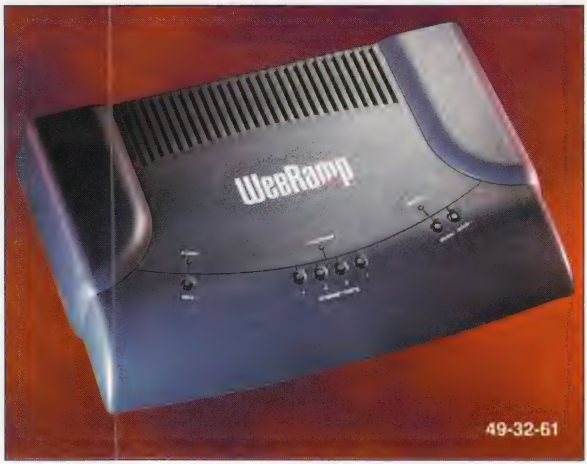
DESCRIPTION	PART NO	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
SonicWALL 10 user	01-SSC-2551	49-54-75	440.11	➧	452.43	447.91
SonicWALL 50 user	01-SSC-2553	48-94-76	880.23	➧	904.87	895.82
SonicWALL 10 DMZ	01-SSC-2557	48-22-63	1594.92	➧	➧	1623.17
SonicWALL 10 PRO	01-SSC-2651	49-49-98	2673.75	➧	➧	2693.90

OTHER ITEMS FOR FULL RANGE OF UPS PRODUCTS SEE PAGES 640–649

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

REMOTE AND INTERNET ACCESS — RAMPNET

WebRamp 310e is an integrated analogue router and 4-port Ethernet hub designed to increase your productivity on the Internet. The WebRamp 310e has telecommuter support, VPN support, and user access controls.



FEATURES:
- Simultaneously share 1, 2 or 3 external analogue modems or ISDN T/As.
- Allow telecommuters to dial into your LAN from remote connections.
- Create a Virtual Private Network to allow remote users to tunnel into your LAN from remote locations.
- Control the type of Internet Access (web, E-mail, etc.) for each employee.
- Connect remote networks using IP/IPX routing or bridging.
- Simultaneously connect to the

WebRamp 410i provides an integrated high-speed ISDN connection with an IP router, 4-port Ethernet hub, 2 voice ports and security features.

FEATURES:
- Everyone shares one ISDN line – no need for multiple modems and phone lines.
- Easy to install with browser-based configuration software that works with Windows and Macintosh systems.
- Access the Internet and use your fax or phone simultaneously on one ISDN line.
- Control each user's access to different Internet applications by time of day.
- Remote networks are easily connected via routing, bridging or VPN pass-through.

WebRamp 310i integrates 2 internal 56K V.90 modems, an analogue router and 4-port Ethernet hub designed to increase your productivity on the Internet. WebRamp 310i is the most affordable way to give everyone Internet access and adds telecommuter support, VPN support and user access controls.

FEATURES:
- Simultaneously share 1 or 2 internal analogue modems or add an external modem or ISDN T/A.
- Allow telecommuters to dial into your LAN from remote connections.
- Create a Virtual Private Network to allow remote users to tunnel into your LAN from remote locations.
- Control the type of Internet Access (web, E-mail, etc.) for each employee.

Networking pre-sales team
08701 66 33 22

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
WebRamp 310e	49-32-61	366.56	▶	376.82	373.05
WebRamp 310i	49-54-98	441.52	▶	457.31	452.74
WebRamp 410i	49-95-75	273.35	▶	281.00	278.19

OTHER ITEMS
FOR A RANGE OF UPS PROTECTION SEE PAGES 640–649

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NETWORK SECURITY FIREWALLS — RAMPNET



Networking pre-sales team 08701 66 33 22

Firewall Security: WebRamp 700s uses stateful packet inspection to determine if a data packet is allowed through the firewall to the private LAN. Additionally, it has extensive logging, e-mail alarms and the ability to limit access to specific sites.
Denial of Service Attack Prevention: WebRamp 700s is pre-configured to automatically detect and thwart Denial of Service (DoS) Attacks.
Network Address Translation (NAT): NAT translates multiple IP addresses on the private LAN to one public address that is sent out to the Internet. NAT allows WebRamp 700s to be used with Internet accounts, where only one IP address is provided by the service provider.
Web Browser Management: WebRamp 700s is easily and securely configured and monitored through a Web-based interface. Authentication is established using an MD5-based encrypted security mechanism.
DHCP Server: WebRamp 700s' DHCP server offers completely centralised management of TCP/IP client settings, including the IP address, gateway address, DNS address and more.

What is included in the box?
- A WebRamp 700s.
- 1 Ethernet cable.
- 1 Cross-over cable.
- Power supply.
- Installation Guide.
- Warranty Card.
- Documentation and Application CD containing:
  - Internet browser (Netscape 4.06 for Windows and Macintosh).
  - WebRamp Reference Manual.
  - WebRamp tools.

Remote Access Authentication: Users can access Intranet resources on the private LAN by successfully logging into WebRamp 700s from the Internet.
Optional Intranet Support: WebRamp 700s allows Intranet firewalling by allowing the administrator to restrict access to certain LAN resources. For example, protection may be required for a company's accounting department against unauthorised access by other users on the same network.

WebRamp 700s provides fast Internet access for everyone in your business.
- Allows multiple users to share a cable or xDSL modem.
- Provides Firewall protection against hackers.
- Can block access to inappropriate web sites.
- Integrates with existing WebRamps.

Product Specifications:
- 1 10Base-T LAN port to connect to an Ethernet hub.
- 1 10Base-T WAN port to connect to an Ethernet modem or router.
- Complete browser-based configuration and management.
- Real-time clock: Lithium-ion Battery (Year 2000 compliant).
- Power: 5V/1.5A AC adaptor (included) for either 110V or 220V.
- General Status LEDs: Power, Test.
- Ethernet LEDs: Link, Transmit, Receive (per port).

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
WebRamp 700s **5 user**	49-32-62	299.30	▶	310.00	306.90
WebRamp 700s **25 user**	49-54-99	481.77	▶	499.00	494.01
WebRamp 700s **100 user**	49-95-76	758.86	▶	786.00	778.14

OTHER ITEMS FOR FULL RANGE OF UPS SEE PAGES 661–671

www.action.com THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

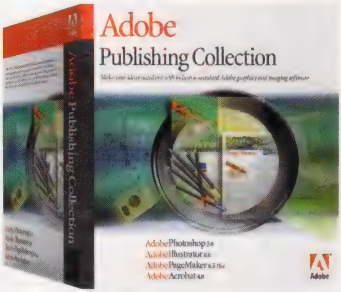
THE ESSENTIAL GUIDE TO SOFTWARE

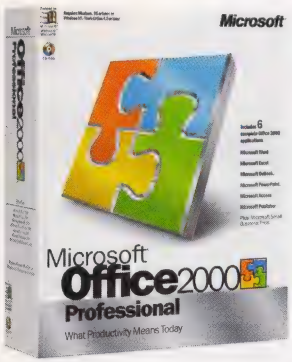


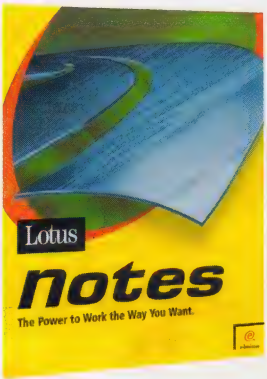
THE ESSENTIAL GUIDE TO SOFTWARE

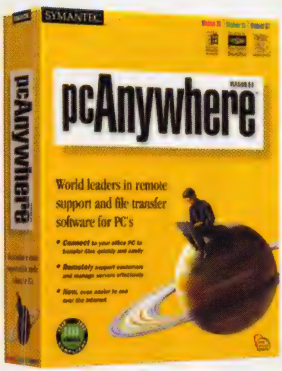
Ever wondered how a copy of Microsoft Office could be advertised for £325.00, £293.00, £269.00 and £172.00 in the same magazine – sometimes even by the same company?

Action's Essential Guide to Software is designed to explain the software choices available, and to assist in making the right decision for you and your organisation.









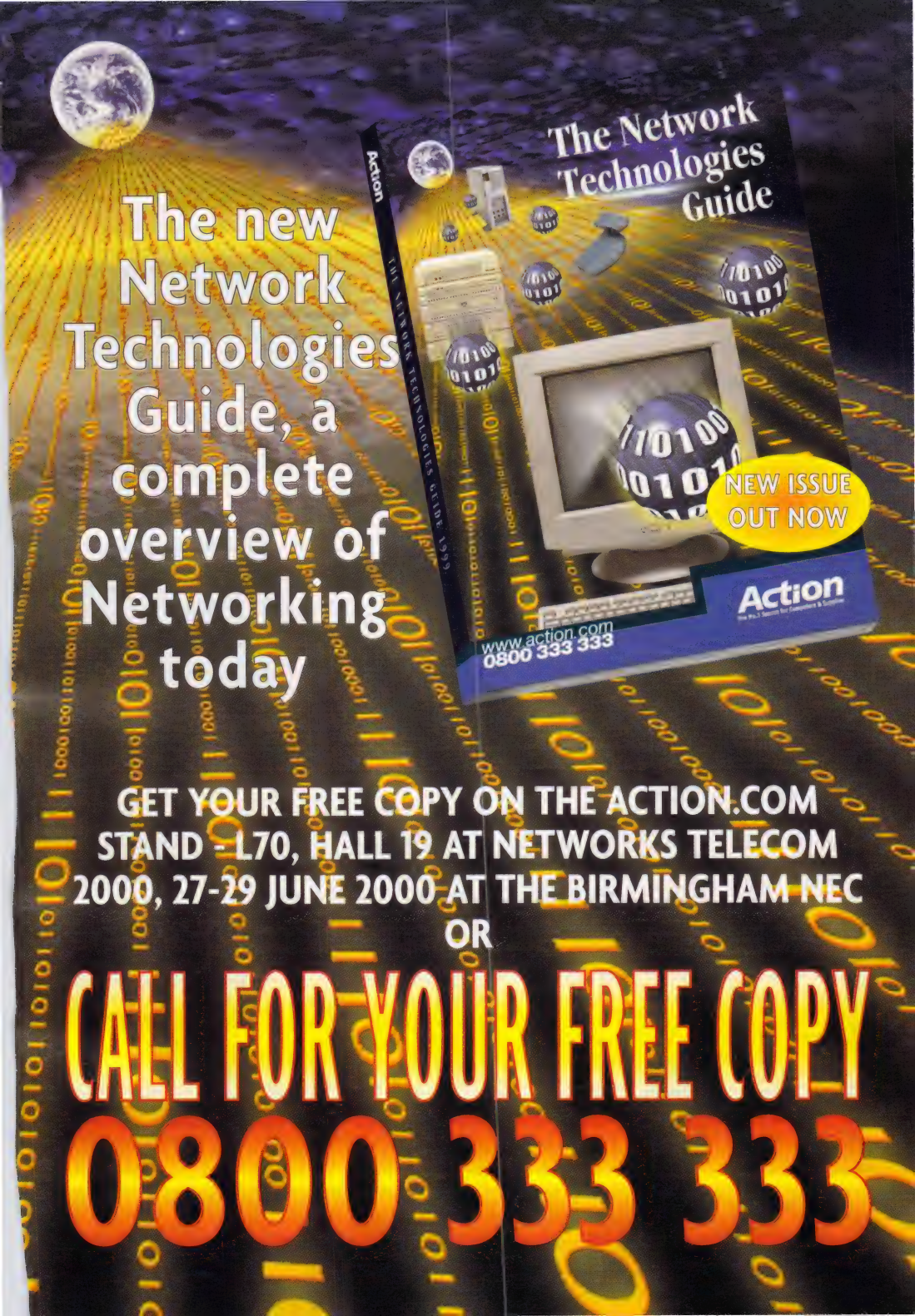
THE SOFTWARE EVOLUTION

This section examines the most common elements of desktop software options. No product or manufacturer specifics are included in this section; they are detailed in pages 789–792.



OTHER ITEMS
FOR SOFTWARE PUBLISHER INDEX SEE PAGES 810–814

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status


The new Network Technologies Guide, a complete overview of Networking today
The Network Technologies Guide
NEW ISSUE OUT NOW
Action
www.action.com
0800 333 333
GET YOUR FREE COPY ON THE ACTION.COM STAND - L70, HALL 19 AT NETWORKS TELECOM 2000, 27-29 JUNE 2000 AT THE BIRMINGHAM NEC
OR
CALL FOR YOUR FREE COPY
0800 333 333

THE SOFTWARE EVOLUTION

STAGE 1	Full packaged product (FPP)
What are the benefits?	You have the benefits of the software application. If the user also owns the manual, application support costs may be reduced.
Who would buy this?	Anyone, from a home user to a large corporate who only have one user working with the application, or wish each user to have access to the manuals and disks/data cartridges/CDs.
What is this option?	Everything you need to load and use a software application, the only pre-requisites are detailed in the system requirements specification.
What you get	A number of disks/data cartridges/CDs, a manual, a 1-user licence, and a registration card.
Risks	Users having access to disks/data cartridges/CDs may make illegal copies, thereby causing themselves and/or their company to infringe the copyright laws.

STAGE 2	Buying a new version of a currently owned packaged The Version Upgrade.
What are the benefits?	Typically 40% cheaper than buying another FPP. **SAVE 40%***
Who would buy this?	Anyone currently owning an old version of an application who would gain benefits from using the latest version.
What is this option?	This is known as an upgrade and comes either as a Registration Card Upgrade (Upgrade), or a Compliance Checking Product (CCP). With a Registration Card Upgrade you have to send an order form as instructed in the box to receive a Full Packaged Product copy of the latest version. With a CCP upgrade, the package checks for the previous version on the PC, if it is present the latest version will be copied onto that PC. With Microsoft Office and Lotus SmartSuite you can also use these upgrades to upgrade from any version of one of the components eg. MS Excel to MS Office.
What you get	**Registration Card Upgrade:** A registration card **CCP Upgrade:** A number of disks/data cartridges/CDs, a manual, a 1-user licence, and a registration card.
Risks	Users having access to disks/data cartridges/CDs may make illegal copies, thereby causing themselves and/or their company to infringe the copyright laws.



ACTION: No1 FOR LICENSING
CALL 08701 63 33 00 TO FIND OUT WHY

*** These savings are approximate, please call for a quote.**

OTHER ITEMS

FOR DESKTOP SUITES SOFTWARE SEE PAGES 820–824
FOR WORD PROCESSING SOFTWARE SEE PAGE 826
FOR DATABASE SOFTWARE SEE PAGES 828–830

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

THE SOFTWARE EVOLUTION



STAGE 3	Exchanging a current package for latest version of a competing product – The Competitive Upgrade.
What are the benefits?	Typically 20% cheaper than buying another FPP. **SAVE 20%***
Who would buy this?	Anyone currently owning an application who would gain from using a competing application, eg. would save on training or support costs.
What is this option?	This is know as a Competitive Upgrade or Trade Up. It can come in 2 forms, Registration Card or Compliance Checking Product (CCP). With a Registration Card Upgrade you have to send an order form as instructed in the box to receive a Full Packaged Product copy of the latest version. With a CCP upgrade, the package checks for the previous version on the PC. If it is present, it will copy the new product onto the PC. Many software manufacturers use the Version Upgrade to allow Competitive Upgrades.
What you get	**Registration Card Upgrade:** A registration card **CCP Upgrade:** A number of disks/data cartridges/CDs, a manual, a 1-user licence, and a registration card.
Risks	Users having access to disks/data cartridges/CDs may make illegal copies, thereby causing themselves and/or their company to infringe the copyright laws.
STAGE 4	Extra users Single License Packs.
What are the benefits?	Typically 10% cheaper than buying another FPP. As users will not have access to media, no copyright laws can be infringed through illegal copying. **SAVE 10%*** There are no storage or security costs of holding manuals or media.
Who would buy this?	A company legally owning a software package who would benefit from other employees using the package. Once the number of employees needing to use this package exceeds 10, licence schemes should be considered.
What is this option?	This is called a licence pack – it gives you the right to make a copy of the software application, or multiple copies if the licence pack is purchased for multiple users. In order to buy this option, you or your company must legally own one Full Packaged Product copy of that version of the application. Upgrade licence packs can also be purchased.
What you get	A licence to use for how many extra users the licence pack was purchased for. A registration card. Some manufacturers provide licence packs for multiple users with the components of a FPP.
Risks	No manuals are included which may increase support costs.

ACTION: No1 FOR LICENSING
CALL 08701 63 33 00 TO FIND OUT WHY

*** These savings are approximate, please call for a quote.**

OTHER ITEMS

FOR SOFTWARE PUBLISHER INDEX SEE PAGES 810–814

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

THE SOFTWARE EVOLUTION

STAGE 5	Volume Licensing Schemes
What are the benefits?	This option is 20% cheaper than buying another FPP. **SAVE 20%***
Who would buy this?	A company typically with 10 or more computer users would look at this option for any application purchases.
What is this option?	This is called a Licence scheme without forecast volume commitment. This option gives you the right to make an agreed number of copies of specific software applications. In order to buy this option you or your company must legally own one Full Packaged Product copy of the latest version of each of the applications.
What you get	A bespoke licence produced for your organisation.
Risks	No manuals are included which may increase support costs.
Are upgrades included in the scheme?	Within some schemes, organisations can also ensure that they will be able to upgrade to all new versions for 2 years for a fraction of the individual upgrade costs. This is known as maintenance or upgrade assurance.

STAGE 6	Forecast Licensing Schemes
What are the benefits?	This option is typically 50% cheaper than buying another FPP. **SAVE 50%***
Who would buy this?	Any large organisation able to forecast its 2 year software requirement would look at this option for software purchases.
What is this option?	This is called a Licence scheme with forecast volume commitment. This option gives you the right to make an agreed number of copies of specific software applications. You must first forecast the number of copies of each package you are likely to need over the next 2 years and commit to this volume with the vendor and Action. Then at regular periods over the 2 years you report the number of packages copied for how many users. You are then invoiced for them.
What you get	A bespoke licence to use. Plus, dependent on the manufacturer a CD containing all the packages relevant to the agreement renewed regularly with the new versions.
Risks	No manuals are included which may increase support costs.
Are upgrades included in the scheme?	Within some schemes organisations can also ensure that they will be able to upgrade to all new versions for 2 years for a fraction of the individual upgrade costs. It is known as maintenance or upgrade assurance.



ACTION: No1 FOR LICENSING
CALL 08701 63 33 00 TO FIND OUT WHY

*** These savings are approximate, please call for a quote.**

OTHER ITEMS
FOR SPREADSHEET SOFTWARE SEE PAGES 820–827

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

THE SOFTWARE EVOLUTION

WHY Action?

- Wide range of software and purchasing options.
- Low low prices.
- Dedicated account management.
- Experienced in-house licence team.
- Low cost of doing business.
- Efficient order processing and invoice arrangements.

The Latest Versions

Although Action endeavours to stock the latest versions of all software in the current catalogue, **new versions may be released** during a catalogue's lifespan. Whenever possible, Action will inform you of imminent new versions up to 1 month before the likely launch date, along with the publishers upgrade arrangements. Due to the very limited time we have to return old versions to our suppliers, we in turn cannot provide this service to our customers on expiry of our grace period. Consequently Action can only authorise old versions for return up to 1 week after we have commenced shipment of new versions, provided the packaging and disk seals remain intact.

Essential Guide to Software is designed to explain the software choices available, and to assist in making the right decision for you and your organisation.

System Requirements

You should carefully compare your PC system requirements with those shown in the catalogue, making sure your configuration **at the very least** matches the minimum requirement, ideally use the publisher's recommended configuration, in order to ensure a successful purchase.

Please note: with the increasing use of Windows 98/2000, PC RAM requirements are growing significantly. Beware of running Windows 98/2000 and its applications with too little free RAM. Always establish your RAM availability before making a purchase.
Refer to page 190 if you require extra memory.

*When ordering licensing: All licensing orders are non-cancellable. If details on licences sent are incorrect, Action must be notified within 10 working days.

OTHER ITEMS

FOR DESKTOP SUITES SOFTWARE SEE PAGES 820–824
FOR SPREADSHEET SOFTWARE SEE PAGES 826–827
FOR DATABASE SOFTWARE SEE PAGES 828–830

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LICENSING Microsoft

Microsoft Open Licence

What is Open Licence?

Open Licence offers open-ended, volume-based pricing over a two year period, without a contract.
The new Open Licence 5.0 contains two licensing solutions: Open Business and Open Volume.
The Open Business is structured to provide customers pure licensing simplicity with no product pools or points and a single price point. Minimum entry can be as few as five licences with a re-order minimum of one point.
The Open Volume is structured for customers willing to commit to larger upfront licence purchases. The structure includes product pools, points, and tiered pricing with no re-order minimums.

How can I Upgrade?

When you speak to the Licence Specialist, you can go through the different upgrade options available for your product. There are trade-ins, version upgrades, and also the option to purchase Microsoft Upgrade Advantage.

How do I get Open Licence?

Acquire your Open Licence from Action. Once you've received the Open Licence Agreement and Certificate of Authenticity, you have the flexibility to use any legally acquired copy of the software to serve as your master disk set and make copies under the terms of the two-year agreement. It also offers a re-purchase option at the same discount level over the two year licensing term.

Open Business

Under Open Business, product pools, points and old level A price SKUs will be eliminated and replaced by a single price level per customer type (corporate and academic). All software licenses can now be purchased on one order using one agreement.

Minimum Order for Open Business

In order to initiate the Open Business offering, there will be a minimum purchase requirement of five licences. Customers may order licences in any combination of products and product types.

Re-orders for Open Business

Customers may re-order under the Open Licence authorisation number with a minimum of one licence.

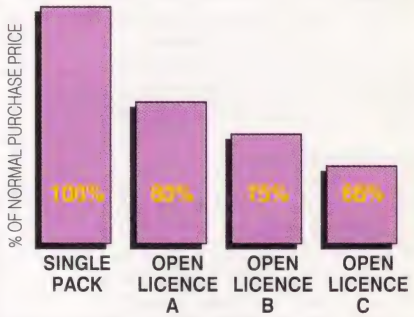
Open Volume

Under Open Volume, product pools and points are maintained. For each product pool, customers will initiate a separate licence agreement. Points are allocated for each product and added together to reach a volume price level.

Open Licence 5.0	Open Business	Open Volume
Agreement Term	24 month	24 month
Distribution	Resellers	Resellers
Licence Agreement	Not Signed	Not Signed
Minimum Order	5 Licences	150 points
Pools	None	Applications Servers Systems
Re-orders	1 licence	1 point

Open Licence Savings

The chart below shows the potential savings small, medium and large companies could make by taking out a Microsoft Open Licence with Action.



Prices are only approximate. Please call **08701 63 33 00** to discover how much you could save.

Minimum Order for Open Volume

In order to initiate an Open Volume offering, the minimum order will be 150 points. Customers must identify which software products are in which pools and then calculate the product point value to achieve the minimum entry levels for each product pool (applications, systems and servers). Each initial order will be considered a separate Open Licence agreement and will be assigned a separate authorisation number.

Re-orders for Open Volume

Re-orders will be a minimum of one point for each product pool.

Microsoft Certified Solution Provider Partner

ACTION: No1 FOR LICENSING
CALL 08701 63 33 00 TO FIND OUT WHY

OTHER ITEMS

FOR NOVELL LICENSING SEE PAGE 802
FOR MICROSOFT PERIPHERALS SEE PAGES 280–282

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LICENSING Microsoft

Microsoft Select

Select Level	Initial number of points
A	1,000-7,999
B	8,000-19,999
C	20,000-49,999
D	50,000+

What is Select?

Select is a contractually based volume licensing programme (with forecast commitment) for larger organisations with a minimum purchase threshold of 1,000+ points of pooled product. Purchasing is monitored by Microsoft and there are regular checkpoints to make sure obligations guidelines are met. Action will monitor and report to you, giving you the level of administration you require to achieve the greatest level of savings during the life of your Select Contract.

How do I get Select?

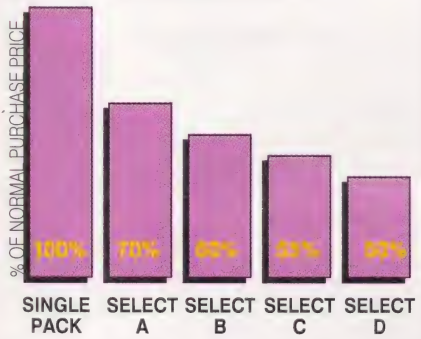
1. Sign a Microsoft Business Agreement (MBA) for each of the – this determines the pricing for the whole agreement.
2. Publicise – All 'sister' or 'daughter' companies can take advantage of the agreement.
3. Enrol – When the Master Agreement has been signed, all sites or departments within the company who forecast 500 points or more can individually sign their own enrollment and receive all the products on CD.
4. Order the software – Enrollment sites can now install the products within the Microsoft Business Agreement Pools in any quantity, confirming and ordering from Action each month.
5. Reach Targets – if you wish, Action can manage and market the agreement within the organisation to ensure all purchasers benefit.

What are the benefits?

The larger the commitment you make with Select, the larger the benefits you receive. You have instant access to all your software with your own complimentary CD-ROM set covering the products you have chosen.
A simple transaction model makes licence acquisition much easier – agree centrally or purchase locally through Action.
Taking out Upgrade Advantage with your Select Licence and you can benefit from all the latest upgrades at no extra cost.

Select Savings

The chart below shows the potential savings a larger company could make by taking out a Microsoft Select Licence with Action.



Prices are only approximate. Please call **08701 63 33 00** for a quote tailored to your organisation. You could save even more!

Enterprise Agreement

The Enterprise Agreement is a ***simple licensing*** solution for Select customers who have made the ***technology decision*** to use Microsoft's platform of products, and who are able to commit to a fixed number. An Enterprise Agreement offers simple administration, business value, and an enterprise-level relationship.

ACTION: No1 FOR LICENSING
CALL 08701 63 33 00 TO FIND OUT WHY

OTHER ITEMS
FOR NOVELL LICENSING SEE PAGE 802
FOR MICROSOFT PERIPHERALS SEE PAGES 280–282

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LICENSING Microsoft

Microsoft Licensing

Ease & Flexibility

Microsoft have made their licensing easy to implement to ensure that different sized organisations can participate.
Microsoft products are grouped into three different pools – Application Pool, System Pool and Server Pool.
Each product within a pool is given a point count (shown in the table), when you combine qualifying products within the same pool, you can achieve higher volume pricing levels and therefore lower prices.

Microsoft Licence Pools & Sample of Point Counts

Application Pool	
Description	Point Count
MS Access™	1
MS Excel™	1
MS FrontPage™	1
MS Office™	2
MS Office Developers Edition™	2
MS Office Small Business Edition™	2
MS OutLook™	1
MS PowerPoint™	1
MS Project™	1
MS Publisher	1
MS Schedule™	1
Systems Pool	
Description	Unit Count
MS Windows 98 Version Upgrade	2
MS Windows 98 Upgrade Advantage	2
MS Windows NT Workstation 4.0 Competitvie/Previous Version Upgrade	2
MS Windows NT Workstation 4.0 Upgrade Advantage	2
Server Pool	
Description	Unit Count
MS BackOffice Server™	30
MS BackOffice Server Version Upgrade	30

How easy is it to licence my software?

It couldn't be easier! All you need to do is call **08701 63 33 00** and speak to one of Action's Licence Specialists, who will then take you through the following steps to work out which scheme would be the most suitable for you.

1. **What product do you wish to end up with?** All you need to decide is what product you want to be using, eg. Microsoft Excel™.
2. **How may points will you be purchasing?** Use the table on the left to decide which products you will be buying, and consequently how many points from each pool you will accumulate. This will then decide which scheme will be best, either Open Licence or Select.
3. **What products do you already have?** This will determine whether you need to buy trade-in versions, upgrades or completely new versions of the product. This will also decide what discounts you will be entitled to.
4. **The Licence Specialist will then provide you with a quote for your company.**

Microsoft Certified Solution Provider Partner

ACTION: No1 FOR LICENSING
CALL 08701 63 33 00 TO FIND OUT WHY

OTHER ITEMS
FOR NOVELL LICENSING SEE PAGE 802
FOR MICROSOFT PERIPHERALS SEE PAGES 280–282

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LICENSING COREL

Corel® Licence Program

Corel Corporation, award-winning developer of productivity applications, including Corel WordPerfect® Suite and CorelDRAW™, delivers smart business tools to customers through our innovative licensing program. The Corel Licence Program (CLP) is the most cost-effective way for any organisation to take advantage of our world-class software and technical support.

Three Options to Meet Your Needs

Corel knows that different organisations have different licensing needs, which is why we've developed three versions of our program. Choose the option that best suits your organisation's size, work style, and current future purchasing requirements.

CLP Choice™

Designed for small businesses or departments within larger organisations, CLP Choice offers exceptional software and service with a low minimum purchase requirement of only one licence. This option makes it easy and affordable to take advantage of streamline administration and an amazing selection of products. CLP Choice benefits also include:

- No reporting or signed agreement.
- Flexible deployment options that keep you licensed 24 hours a day.

CLP Freedom™

CLP Freedom is a site licence program for organisations seeking Corel's most cost-effective solution. To qualify for CLP Freedom, your organisation must license Corel's award-winning business or graphics software across your entire organisation, or a defined portion of your organisation such as a subsidiary, department, division, business unit or physical building location. The minimum licensing commitment to qualify is only 100 employees or workstations. By standardising on Corel software, your organisation can take advantage of award-winning products, enhanced compatibility, streamlined software management, and reduced training and technical support costs. Plus, CLP Freedom offers:

- Unlimited growth with no reporting during the agreement period.
- Upgrade Protection to help you keep your software up-to-date.
- The flexibility of a one or two-year agreement.

CLP Universal™

CLP Universal helps your organisation minimise total cost of ownership (TCO) by offering cutting-edge technology and high-quality technical support. This option is ideal for medium to large-sized organisations that can commit to a minimum purchase of 500 points in licences and/or Maintenance and a two-year agreement. CLP Universal is easy to administer and includes a variety of no-additional-charge features to ensure it meets the changing needs of your organisation. The benefits of CLP Universal also include:

- No forecasting or volume commitments after the initial purchase.
- Four cumulative discount levels.
- Coverage for an unlimited number of affiliated sites.

ACTION: No1 FOR LICENSING
CALL 08701 63 33 00 TO FIND OUT WHY

OTHER ITEMS FOR COREL PRODUCTS SEE PAGES 843, 852

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LICENSING Lotus IBM™

Lotus Passport Advantage

Passport Advantage is the Volume Licensing Programme from Lotus and IBM. Providing customers with a single program to purchase licences, software subscription and support for IBM and Lotus products. Included under the Passport Advantage program is Software Subscription (formerly Passport Maintenance), an annual payment allowing customers to install the latest versions of software and move between operating systems, lowering the costs of migration and protecting customer investments in Lotus and IBM technology.

As an alternative to Software Subscription, now available is the ability to acquire a Single Upgrade Licence which allows customers to upgrade to the most current release of a product when they need it. Software Subscription, purchased for a defined period of time, is designed to protect a customer's software investment by offering access to the latest software enhancements, future releases and proactive media delivery when a new version is released.

The Single Upgrade licence is designed for products that do not change versions on a regular basis. Single upgrades offer customers a simple and easy way to gain access to the latest release (not future releases). Customers are required to own a previous license of the product and then they simply buy the Single Upgrade Licence and media when they need it.

Migration Plans Existing Passport 3.0 customers will automatically migrate directly into the Passport Advantage programs leveraging their existing price band levels.

Volume Purchase Option

The Volume Purchase Option is a simple, flexible way for customers to buy IBM and Lotus licences, single upgrades, software subscription and support in volume without having to make a purchase commitment. Customers earn volume discounts based on cumulative purchases across multiple sites anywhere in the world. The Volume Purchase Option requires no commitment or formal agreement to be signed.

Volume Purchase Option offers the following:

- No customer contract or forecast necessary.
- All products and services carry point values (excludes IBM Hourly Support Coverage).
- Cumulative point value dictates customer price band level.
- Minimum entry: 10 points, re-orders 10 points.
- Exclusive VPO part numbers and price list available, three levels, A (25 points), B (250 points) and C (1,000 points).
- Allows up to five additional sites to leverage price band level.
- Software Subscription.
- Single Upgrade provides a licence for the most current version.
- Technical Support.

Please call the Action Licensing team for full details on all of the Lotus and IBM support offerings.

Contract Option

Contract Option is designed for customers who can forecast their software needs and commit to making purchases of IBM and Lotus software, software subscription and support totalling at least 1,000 purchase points during a two-year contract period. Additional customer locations or sites anywhere in the world can enrol under the same contract so organisations can leverage their purchasing power.

ACTION: No1 FOR LICENSING
CALL 08701 63 33 00 TO FIND OUT WHY

OTHER ITEMS FOR LOTUS PRODUCTS SEE PAGES 892, 893

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

Lotus Licensing

Complete Enterprise Option

The new Complete Enterprise Option is designed to help reduce the cost of software ownership and management by including a total and complete offering which combines user licences, software subscription and technical support. Customers will have the option to select one of a series of predefined categories that reflect their IBM and Lotus enterprise-wide software requirements.

- Two-year, enterprise-wide agreement.
- Based on users, not points.
- Enterprise is defined as '100% of all users with workstations capable of installing and running IBM and Lotus offerings within a defined entity'.
- Customer required to acquire 100% user licences within the defined enterprise.
- Customers initial purchase order dictates customer price band level.
- Six price band levels C–H
  - C = 1,000 users
  - D = 2,500 users
  - E = 5,000 users
  - F = 10,000 users
  - G = 25,000 users
  - H = 50,000 users
- New users can be added any time throughout the agreement.
- Unlimited number of sites can be included within defined enterprise.
- One category selected by customer – categories to be announced.
- Entitlement to all products within selected category.
- Software Subscription and Technical Support included with licence to first anniversary date.

Contract Option

- Two year agreement, contract required.
- Price band level dictated by customer's two year forecast, available on day one.

Purchase Requirements

- 15% of forecasted volume, within 30 days of contract execution.
- At least 50% of forecasted volume commitment due by twelve months.
- Six price band levels C–H
  - C = 1,000 points
  - D = 2,500 points
  - E = 5,000 points
  - F = 10,000 points
  - G = 25,000 points
  - H = 50,000 points
- All products and services carry point values (excludes IBM Hourly Support Coverage).
- Minimum entry: 1,000 points.
- Unlimited number of additional sites can leverage price band level.
- Allowed to install and report usage within 30 days.
- Sofware Subscription included with licence up to first or second anniversary. Sold as 'licence with software subscription'.
- No licence-only option is available.
- Additional option of a 'licence with software subscription and support'.
- Customer can also acquire software subscription and support for existing licences.
- Renewals are based upon contract anniversary date.
- Single Upgrades provides a licence for the most current version.
- Technical Support can also be purchased.
- Documentation and media sold separately.

Effective April 27th 1998, no new Advantage agreements will be executed and no new IBM products will be added to the Advantage programme.

ACTION: No1 FOR LICENSING
CALL 08701 63 33 00 TO FIND OUT WHY

OTHER ITEMS

FOR LOTUS PRODUCTS SEE PAGES 892, 893
FOR IBM PRODUCTS SEE PAGE 855

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LICENSING SYMANTEC.™

Symantec Licensing

The Symantec Value License Program and Symantec Global License Program are designed to give you flexible, cost-effective options to meet your Software licensing requirements. Whether yours is a small local shop or a large multinational enterprise, Symantec has a program specifically designed to work for your business.

Tier	Licenses
Value A	10-24
Value B	25-49
Value C	50-99
Value D	100-249
Value E	250-499
Value F	500-999
Value G	1000-2500

Value Licence Program

What is it?

Value License is the fastest and easiest way to license Symantec software. This certificate-based program provides attractive volume discounts, minimal paperwork, and a low minimum initial purchase of only 10 licenses. No legal review or contracts are required — all you need is a purchase order. With the Symantec Value License Program, you simply purchase one retail or low-cost media pack from your reseller, and we supply a certificate authorising you to make one copy for each license purchased. It's that simple. And unlike many other software licenses that have a limited term, with Symantec once you've purchased your license, it is yours for life.

How do I qualify?

You want a software license program that provides you the flexibility to tailor an agreement to your particularly valuable for multinational organisations. However, each qualifying subsidiary must be able to forecast a minimum of 500 licenses for its own use.

What are the benefits?

Larger subsidiaries may choose to sign a Subsidiary. You will also have access to the various facets of Symantec's Technical Support Program, details available from Action.

Do I get a discount?

Symantec Value License Program offers 7 different levels. Purchasing via SVLP offers lower pricing than multi boxed product licenses.

What do I receive?

Once the media is purchased and the required order for licences made, you will receive a certificate enabling you to duplicate the software to work with Symantec.

ACTION: No1 FOR LICENSING
CALL 08701 63 33 00 TO FIND OUT WHY

OTHER ITEMS FOR SYMANTEC PRODUCTS SEE PAGES 870–874

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

Symantec Licensing

The Global License Program

What is it?

The latest addition to the Symantec family of licensing options, the Global License Program is a flexible customisable program that delivers consistent pricing and deliverables worldwide. It enables Customer's like you to leverage your organisation on a domestic, international, or global scale to achieve the highest possible discounts, based on a two-year, 2000 unit minimum forecast. You can purchase centrally for your entire organisation or on a decentralised basis at the subsidiary level, with the same pricing and support advantages regardless of purchasing location. The Global License Program offers the maximum discount for up-front, Enterprise purchases while allowing the remaining units to be purchased over time on a convenient monthly schedule. A Foundation Customer and all its subsidiaries are then entitled to purchase any quantity of any Symantec product at that price band for the duration of the Foundation Agreement.

How do I qualify?

You want a software license program that provides you with the flexibility to tailor an agreement to your organisation's specific needs while also ensuring that you receive the maximum benefit. The Symantec Foundation Agreement is signed at your worldwide company headquarters and locks in the most favourable price band based on the total number of forecasted units, enterprise-wide, of any combination of Symantec products over the following two years.

Tier	No. of Licenses
A	2000-4999
B	5000-9999
C	10000-24999
D	25000-49999
E	50000-99999
F	1000000+

What are the benefits?

Larger subsidiaries may choose to sign a Subsidiary Agreement referencing the Foundation Agreement and nominate Action as their own Reseller: This is particularly valuable for multinational organisations. However, each qualifying subsidiary must be able to forecast a minimum of 500 licenses for its own use.

What about the Upgrades?

Once signed up on the Symantec Global Licence Program, you will have access to the Symantec GLP extranet website where you will be able to access upgrades and deliverables.

What do I receive?

The option is a system to make copies of Symantec licenses. If you require the full packaged product, set of media or manuals you can purchase them from Action. Purchasing in such volume also enables you to access the various facets of Symantec's Technical Support Program; details of this are available from Action.

ACTION: No1 FOR LICENSING
CALL 08701 63 33 00 TO FIND OUT WHY

OTHER ITEMS
FOR SYMANTEC PRODUCTS
SEE PAGES 863–865, 870–874

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LICENSING VERITAS

VERITAS Software Volume Licensing



VIP

VIP is VERITAS Software's flexible volume software licence program that makes it easier to acquire and deploy VERITAS Software products. Whether you want to purchase software on an as-needed basis, or forecast requirements and meet them by contract, VIP has a purchase plan tailored to meet your needs. Volume discounts are substantial for single sites as well as for global enterprises. VIP purchase flexibility, expense forecasting capabilities and scaling volume discounts can significantly reduce your cost of software ownership.

- Volume purchase incentives.
- Immediate discounts.
- Flexibility to suit your business needs.
- Simple points system, tracked by VERITAS Software.
- Multiple software acquisition options.

TWO LICENCE PLANS:

Open Licence Plan – allows you to purchase VERITAS Software products on an as-needed or open basis, receiving additional discounts as your cumulative volume grows.

Level	Points
A	10-199
B	200-999
C	1000-4999+
D	5000-9999+
E	10000+

Contract Licence Plan – for medium and large organisations, the Contract Licence Plan offers even greater price discounts and can further reduce your total cost of ownership. Simply forecast your requirements and commit to purchases that span a two-year period. This plan also includes a series of VERITAS Software-administered checkpoints to ensure your forecast is being followed.

Level	Points
A	4000-9999
B	10000-19999
C	20000-29000+
D	30000+

- Upgrade Advantage also available.

ACTION: No1 FOR LICENSING
CALL 08701 63 33 00 TO FIND OUT WHY

OTHER ITEMS FOR VERITAS BACKUP EXEC SEE PAGES 927, 928

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LICENSING Novell.

Novell Licensing

Novell provide two licensing options designed to meet the demands placed on businesses by today's mission critical networking applications.

The two schemes available are Volume Licensing Agreement (VLA) and Corporate Licensing Agreement (CLA).

VLA is designed to meed the changing needs of the small and medium enterprise customer or the smaller division of larger enterprises worldwide.

CLA is designed to meet the needs of the larger corporate customer. Customers with the ability to forecast their requirements over a two year programme benefit from the flexibility of multiple purchase, licensing and service options.

All key products are available under the two schemes, which are both points-based programmes.

Each Novell software product is allocated a points value, as is each Programme membership level.

By adding together the points allocated to the products being initially purchased with VLA, and forecast over a 2 year term with CLA, the total points value of the order can be determined. In both cases, the higher the points, the higher the Membership Level and consequently the savings you can make.

Licence packs

When you have made your order, special builds are made for each order.

With VLA you receive a Novell CC Licence Pack, which entitles you to install any legally acquired copies of the software under the terms of your scheme.

When you start your CLA agreement, you will receive an NSCL (Novell Software Connection Library) which includes all the master CDs for the key Novell products. Once an order has been made, you receive a Novell CC Licence Pack for the products that have been ordered, and if the order value carries a points value of 500 points or more, you will also receive individual software masters for the products included within that order. These software masters comprise a copy of the product as well as the licence diskettes required for key serialised products.

Upgrade protection

Through payment of upgrade protection fees, customers receive the right to use the most up-to-date versions of the product throughout the whole term of their VLA or CLA.

Upgrade protection has been created to help customers minimise the cost of owning Novell software by simplifying key aspects of the software asset management process. Most obviously, upgrade protection reduces the per-copy cost of new Novell software releases.

At the commencement of the VLA or CLA, upgrade protection can be purchased to cover the full two year term of the agreement; alternatively, it may be purchased for a single year as required. Additional value-add services area also available for purchase through the CLA for service options. These include Consultancy, Educational and Technical Services allowing you to customise the program to suit your specific requirements.

How do I order?

It couldn't be easier! All you need to do is call 08701 63 33 00 and speak to one of Action's Licence Specialists, who will take you through the following steps to work out the best scheme for you.

1. Decide which products you wish to buy.
2. Work out the amount of users you already have.
3. Determine which products you already have.
4. Provide you with a quote for your products.

ACTION: No1 FOR LICENSING
CALL 08701 63 33 00 TO FIND OUT WHY

OTHER ITEMS

FOR COREL LICENSING SEE PAGE 796
FOR NOVELL PRODUCTS SEE PAGES 905, 906, 909

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LICENSING

Network Associates Total Solutions Programme

Network Associates is an industry leader in security, anti-virus, help desk and network management software solutions. Following the acquisition of Dr Solomon's software in August 1998, technology from the two companies is being integrated into powerful new solutions.

Our products are available to you as a single integrated suite, Net Tools, or 4 mini suites:

Total Virus Defense

A comprehensive line of defense at the desktop, the server and the gateway.

According to a recent Ernst and Young Survey, viruses are the number 1 threat to network security resulting in financial loss. There are over 20,000 viruses with over 300 new viruses being discovered every month. Total Virus Defense is a multi-tiered anti-virus solution protecting networks at the desktop, server and Internet gateway.

Total Network Security

Thorough protection of the enterprise inside and outside.

Your corporate assets are increasingly at risk as mission critical business is conducted over corporate networks and across the Internet. The Total Network Security suite enables you to take advantage of networking opportunities while mitigating the increasing multitude of security risks on the Internet, Intranets and extranets.

Total Network Visibility

End to end intelligence for optimising performance and ensuring availability.

Automated tools and systems that help prevent, find and fix problems are more essential than ever. Total Network Visibility employs the industry's largest collection of protocol decodes plus expert analysis to automatically pinpoint and analyse network problems and recommend solutions for fixing and preventing them.

Total Service Desk

Integrated tools for complete and convenient network management.

When you can't stop computing problems at the desktop, when security policies fail or when network performance issues are encountered, what happens? Somebody calls the helpdesk. Total Service Desk was created to address these inevitable problem-escalation issues and provide the best reactive management tools in the industry.

All of these products can be purchased under our new licensing program **Total Solution (TSP).** This program offers small, medium and large companies the opportunity to earn volume discounts on the acquisition, distribution and maintenance of Network Associates software.

Prices are calculated per workstation for each product suite. Simply call the Action licensing desk with the number of workstations on your network and the products you require and they will be able to send you a quote.

Once you've purchased a Network Associates license we offer you the ability to increase the number of users of the products covered at a preferential price at any time.

ACTION: No1 FOR LICENSING
CALL 08701 63 33 00 TO FIND OUT WHY

OTHER ITEMS

FOR NOVELL LICENSING SEE PAGE 802
FOR NAI PRODUCTS SEE PAGES 866–869, 912, 913

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

LICENSING

FileMaker persoft

FileMaker

The **FileMaker Licensing Programs** offer options to save money on software no matter how large or small your requirements.

Volume Licensing Agreement

The FileMaker Volume Licensing Agreement (VLA) offers the lowest purchase requirements of any FileMaker program and allows you to mix and match the FileMaker products you need.
Under the VLA you can licence as few as 100 units of Filemaker software at a discounted purchase price. You can combine products, platforms and types (new upgrade/competitive upgrade) to meet the 100-unit minimum – the only requirement is that all products must be licenced on a single purchase order with a single distribution point. Disk packs and documentation sets are not included and must be purchased at the same time as the VLA.

Open License Agreement

The FileMaker Open License Agreement (OLA) is perfect for companies that want to forecast growth – and software purchases – over a two-year period. This licence allows you to mix and match, but gives you two years to meet your purchasing requirements. The program requires a signed agreement and a 500-unit minimum during the terms of the agreement.

Upgrade Subscription Program

The Upgrade Subscription Program (USP) offers another flexible, cost-effective way to protect your software investment. Through the prepayment of a two-year maintenance fee, you are licensed to copy and distribute commercially released upgrades and updates during the term of the maintenance agreement at no additional charge.
Available to any FileMaker customer, once the subscription is ordered through Action you will receive a contract which includes start and end dates of the USP and a list of the products enrolled. Future upgrades can be downloaded off the Web, or will be sent to the address on your contract.

Persoft

Persoft is a leading world-wide provider of Desktop-to-host connectivity solutions. Programmes include Loyalty Schemes and Volume Licensing agreements. Persoft aim to provide users with the solutions and services that they need as new marketing trends such as E-Commerce develop.

Persoft's licensing programmes are divided into two sectors. Subsciption Agreement and Loyalty Plus:

Persoft Subscription Plan

The Persoft Subscription Plan is an annual maintenance and support plan for users offering free ongoing technical support, free product upgrades and fixed prices.

Persoft Loyalty Plan

The Persoft Loyalty Plan is a simple volume software licensing programme, which reduces total cost of software ownership, while making it easier to acquire licences for Persoft products on an on-going basis. This plan is designed for organisations with 500 or more PCs and extends its benefits to an entire organisation, including all affiliates, with a single agreement, enabling organisations to capitalise on total volume purchasing power, irrespective of whether the organisation is based at single or multiple sites.

ACTION: No1 FOR LICENSING
CALL 08701 63 33 00 TO FIND OUT WHY

OTHER ITEMS

FOR NOVELL LICENSING SEE PAGE 802
FOR TERMINAL EMULATION SOFTWARE SEE PAGES 875–877

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LICENSING

COMPUTER ASSOCIATES

Computer Associates Open License Program

The Open License Program gives customers the freedom to make smarter, more cost-effective purchasing decisions. With enhanced program benefits and features, CA OLP version 2.0 makes purchasing CA software and services even easier. OLP is a volume-purchasing program specifically aimed at helping to reduce the cost associated with evaluating, acquiring, maintaining, upgrading and managing CA Workgroup and Advanced Edition software products.

Customers can license CA's wide variety of Workgroup solutions through the OLP's simple and flexible volume-based pricing. Simply acquire the minimum number of points at one of three price levels, and continue to receive that discount level for reorders over the next two years. A 2 year Upgrade Protection scheme is also available to ensure that licenses remain current without incurring additional costs for new releases.

- Cost savings by setting the program purchase level for a two-year period.
- Fast detailed quote and calculation of program levels.
- Free 90-day technical support included with each initial order and on all reorders.
- The same OLP number can be shared from anywhere within one organisation to take advantage of the same OLP discounts.
- Lower entry level with 40 points minimum on initial orders instead of 75.
- Special nodal pricing for Inoculate*IT* and Control*IT*.
- 1 point minimum on reorder.
- OLP doesn't require the purchase of the actual boxed product first.
- No forecasting, reporting or additional commitment to purchase.
- Streamlined purchasing and cost saving: no need to buy duplicate copies of boxed products.
- Live Trial availability: allows sampling of all WG and AE products in the OLP kit.
- Centralised license management.
- The OLP Solution Kit contains everything your customer needs to install WG and AE products.
- More discount levels: A, B, C and new level D.

Mix and Match Products and Services:

- Earn points towards big discount levels.
- Upgrade Protection.
- Remote Deployment.
- Training/Educational Services.

Solution Areas to choose from:

- Storage Management.
- Network Management.
- Desktop/Server Management.
- Database and Information Management.
- Security.
- Help Desk Solutions.
- Communications.

Discount Levels

Purchase Level	Point Range
A	40-249
B	250-499
C	500-1499
D	1500+

Workgroup and Advanced Edition products with OLP

SOLUTION AREA	CA PRODUCTS
Security	Guard/*IT*, Inoculate/*IT* for NetWare or Windows NT (AE & WG)
Desktop/Server	Aim/*IT*, Ship/*IT*, Control/*IT* (AE & WG)
Network Management	Double/*IT*
Storage Management	ARCserver/*IT* for NetWare or Windows NT, ARCserver, Survive/*IT* (AE)
Help Desk	Service/*IT*
Information Management	Ingres II, Jasmine

ACTION: No1 FOR LICENSING
CALL 08701 63 33 00 TO FIND OUT WHY

OTHER ITEMS

FOR SOFTWARE INDEX SEE PAGES 810–814

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

Adobe Open Options

Whether you're a corporate customer, a small business ordering in Volume, an Educational establishment or need Adobe Acrobat across a Site, Adobe has a licensing programme to match your organisation's needs. Four distinct programmes are offered under the Adobe Open Options banner – **Corporate, Volume, Education** and **Site.**

With the **Open Options Corporate Licensing Programme,** the Corporate Customer can save money through volume discounts, monthly reporting and the chance to include maintenance with every new product licence ordered. Flexible purchasing power with the **new Open Options Volume Licensing Programme.**

Introducing a unique Volume purchase initiative from Adobe which offers a broad range of benefits including Technical Support directly from Adobe.

Open Options Education Licensing Programme is offered to all eligible educational establishments, research and teaching institutions – combining flexible licence purchasing with the chance to gain outstanding price discounts for establishments operating within tight budgetary constraints.

The **Site Licensing Programme** is intended for customers who wish to install Adobe Acrobat on all selected desktops within their organisation, that is their designated site. The only programme to offer unique cost savings on licences of Adobe Acrobat over a 2 year period.

Adobe

Open Options

The Volume programme brings multiple copies of Adobe software under a single licence agreement and allows you to install the software onto an agreed number of workstations. By ordering in volume like this, you'll qualify for substantial discounts over standard software products and with a single licence agreement, administration is much more straightforward.

Macromedia Volume Licensing Programme

Typically, the minimum volume is ten licences and in return offers substantial discounts, according to volumes and particular products. Macromedia also operates an annual subscription scheme that allows upgrades and updates to be obtained at no additional cost during the subscription term.

Licence Subscription

MVLP customers can choose to maximise the opportunity that the programme offers by purchasing an annual license subscription. This subscription costs 25% of the total license and entitles the customer to automatically receive all updates over the subscription period.

Any subsequent product purchases are valid only for the remainder of that period. In the ever-changing environment of Web software this subscription is invaluable.

Concurrent Licenses

Sometimes in a workgroup environment access to software is needed by different people at different times but usually not all the time, this is why Macromedia offer concurrent licenses.

You may have a team of 30 people, but maybe only 20 of them will be using a particular product at any one time, so you buy a 20 user concurrent license which means that you install the copies on the server and up to 20 of the team can use them. You are able to extend this license in exactly the same way as any other license so as your needs change so can the license.

OTHER ITEMS

FOR NOVELL LICENSING SEE PAGE 802
FOR MACROMEDIA PRODUCTS SEE PAGES 880–882, 886

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LICENSING

Executive Software

Diskeeper Volume Licensing

Executive Software's Diskeeper Volume Licensing lets purchasers buying 20 or more units of Diskeeper (either Server or Workstation) benefit from discounts based on the total number of units bought. Thereafter, any legally acquired copy of the media may be used to distribute the software onto the agreed number of PCs.

Workstation Licensing Price Breaks

NO. OF USER	APPROX. DISCOUNT BASED ON FPP PRICE*
20–99	34%
100–499	44%
500–999	50%
1000–2999	56%
3000+	Please call

Server Licensing Price Breaks

NO. OF USER	APPROX. DISCOUNT BASED ON FPP PRICE*
20–49	40%
50–99	44%
100–199	56%
200–299	60%
300+	Please call

**Based on Action Catalogue 75 price.*

ALSO...

- Update Maintenance is available for minimum 250 Workstation purchase, 50 Server purchases.
- Academic pricing available.
- Site Licences available.

Borland

Multiple Licence Agreement

Borland Licensing Options are available to all customers wishing to buy multiple copies of Borland software, as full product or upgrades. To qualify for a Multiple Licence Agreement, the customer will need to order 10 or more licences.

The Borland Multiple Licence Agreement allows customers the right to use the software on as many computers as they have bought licences for.

How does it work?

The Multiple Licence is based on 10 to 49 users, and you will be provided with a licence allowing the distribution of the product serial number over the agreed number of workstations.

Once you have obtained the licence, you can copy any legally acquired copy of the relevant media onto the relevant number of machines.

The minimum re-order value is for 10 users with a total commitment to buy at least 10 products.

You will receive the licence only, and therefore to make copies, you will need one full copy of the product to obtain media and documentation.

Big benefits

This way of purchasing offers many advantages including:

- Cost-effective purchasing.
- Easier management – licensed software becomes easier to keep track of.
- Buy only what you need – you do not have to buy a full set of media for each and every user.

ACTION: No1 FOR LICENSING
CALL 08701 63 33 00 TO FIND OUT WHY



FOR NOVELL LICENSING SEE PAGE 839
FOR EXECUTIVE SOFTWARE PRODUCTS SEE PAGE 861, 915
FOR BORLAND PRODUCTS SEE PAGE 835

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

File Edit View Go Help

Netscape: Small Business Edition

Back Forward Reload Home Search Netscape Images Print Security Stop

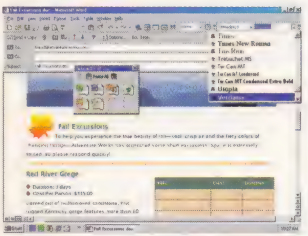
Location: http://www.microsoft.com/uk/office/small_business.htm

Microsoft Office

Microsoft Office2000™

Office Home | I want to... | Office Update | Subscribe | Events & Training | Contact Us

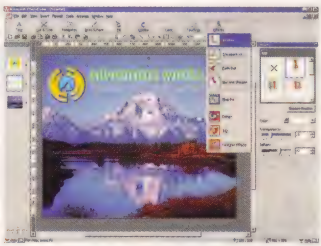


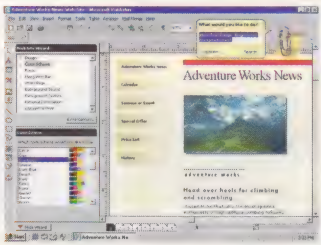


Office 2000 enables you to:

- **Easily share information and work with others.** Microsoft Office 2000 applications support HTML so you can easily share your work with others regardless of the software they use.
- **Manage your day effectively.** Send and receive e-mail, co-ordinate schedules and track activities with your contacts using the personal information management features in the Microsoft Outlook messaging and collaboration client.
- **Make better decisions.** Use easy drag and drop tools to conduct rich interactive analysis, and identify trends and opportunities graphically with Microsoft Excel PivotChart dynamic views.
- **Streamline the way you work.** Reduce downtime and improve reliability. Self-repairing applications search for missing or corrupted files and repair them automatically so you don't have to.

Microsoft Certified Solution Provider Partner





Microsoft Office 2000	Developer	Premium	Professional	Small Business	Standard
Microsoft Word 2000	✓	✓	✓	✓	✓
Microsoft Excel 2000	✓	✓	✓	✓	✓
Microsoft Outlook® 2000	✓	✓	✓	✓	✓
Microsoft Publisher 2000		✓	✓	✓	
Microsoft Small Business Tools	✓	✓	✓	✓	
Microsoft Access 2000	✓	✓	✓		
Microsoft Powerpoint 2000	✓	✓	✓		✓
Microsoft Frontpage 2000	✓	✓			
Microsoft Photodraw 2000	✓	✓			

2:02 pm
artners - Office 2000 - Microsoft UK
What's Related

WORK SMARTER NOT HARDER

Microsoft

- *Smarter communication with the power of the web*
- *Better information for better decisions*
- *Streamlined ways to work*



Premium

Our most comprehensive productivity solution ever. Office 2000 Premium delivers on the promise of the web. It gives you eight powerfully integrated applications that make it easier than ever to access and share information so you can make better decisions.



Developer

The version of Office designed for professional developers who build and deploy solutions with Misrosoft Office. Office 2000 Developer includes Office 2000 Premium and tools to build solutions faster, integrate with organisational data more easily and simplify deployment and management of solutions with Office.



Professional

Office 2000 Professional is rich in capabilities and easy to use. Providing seven integrated productivity solutions you need to make smarter business decisions. From high profile projects to the tasks you do every day, this is the one you'll depend on to get the job done.



Small Business

Combines the five productivity applications that businesses like yours rely on every day. From managing customer relationships to accessing and analysing information, Office 2000 Small Business helps you do it more efficiently and easily than ever.



Standard

Office 2000 Standard includes four productivity applications designed to help you get more done every day. It extends desktop productivity to the web, streamlining the way you work and making it easier to share access and analyse information so you get better results.

For more information see pages 820-823

SOFTWARE

Academic Eligibility Guidelines 940

Accounting 889-890, 935
Microsoft, Sage

Anti-Virus 867-868, 913-914
Network Associates, Sophos, Symantec

Backup 920, 923
Computer Associates

CAD 853-854
Autodesk

Clipart 852
Corel

Communications 871-872, 878, 887
LapLink.com, Microsoft, Symantec

Communications Software 874
Symantec

Compression 862
Nico Mak Computing, PKWare

Contact Management 886
Interact

Database 828-830, 911, 918
Corel, Equisys, FileMaker, Microsoft

Design 841
Adobe

Design Suite 838, 841
Adobe, Adobe

Desktop Publishing 836, 838-840
Adobe, Microsoft

Desktop Suites 824
Lotus

Development Tools 830-835
Borland, Microsoft

Diagramming 848, 850, 851
Microsoft

Educational 943-944
Microsoft

Educational – Licensing 941
Corel, Lotus, Microsoft

Electronic Publishing 839
Adobe

E-Mail 892-894, 909-910
Lotus, Microsoft, Novell

Fax 871
Symantec, Symantec

Fax Server 917-918
Equisys

Finance 891
Intuit

Font 852
Corel

Graphic Design 880
Macromedia

Graphics 837, 841, 843, 852, 880
Adobe, Corel, Macromedia

GroupWare 892, 909
Lotus, Novell

Help Desk 869
Network Associates

Home, Leisure & Reference 938-939
Microsoft

Image Editing 837, 843-844, 880
Adobe, Corel, Digital Workshop, Macromedia, Microsoft

Integrated Packages 825
Microsoft

Internet Development Tools 830
Microsoft

Internet Publishing 837, 879, 881-882
Adobe, Macromedia, NetObjects, SoftQuad

Internet Security 873
Symantec

Labelling 858
Avery

Licensing 793-807
Action, Adobe, Borland, Computer Associates, Corel, Executive Software, FileMaker, Lotus & IBM, Macromedia, Microsoft, Network Associates, Novell, Persoft, Seagate Software, Symantec

Macintosh 819
Adobe, Corel, FileMaker, Macromedia, Microsoft, Quark, Symantec, Xerox

Mapping 935
Microsoft

Multimedia 882
Macromedia

Network Anti-Virus 912
Network Associates

Network Diagramming 849
Microsoft

Network Management 915
Executive Software, PowerQuest

Network Operating Systems 905-906
Novell

Network Security 929
Check Point

Network Utilities 921
Computer Associates

OCR 845-847
Caere, Scansoft, Visioneer, Xerox

Operating Systems 895, 898-902
Corel, Microsoft, Red Hat

Payroll 889-890
Sage

Personal Information Management 887
Lotus

Presentation 826
Microsoft

Project Management 884-885
Microsoft

QuarkXPress 4.1 842
Quark

Reference Manuals 932
Microsoft

Remote Computing 872
Symantec

Reports Writer 888
Seagate Software

Route Navigation 936
AND

Route Planning 936-937
Microsoft, Softwair

Security 916
Content Technologies Ltd, Net Partners

Server 903-904, 911
Microsoft

Speech Recognition 855-857
Dragon Systems, IBM, Lernout & Hauspie

Spreadsheets 826-827
Lotus, Microsoft

Storage 919
Computer Associates

Storage Management 924-927
VERITAS

Student Licence Packs 942
Microsoft

Suite 820-823, 843
Corel, Microsoft

Support & Product Subscription 934
Microsoft

Tape Backup 920, 922
Computer Associates

Terminal Emulation 874-875, 877
Esker, Hummingbird, Persoft, Symantec

Terminal Emulation Software 876
Walker Richer & Quinn Inc.

The Essential Guide to Licensing 788-789

Thin-Client Server 907-908
Citrix

Training 834, 930-931, 933
Microsoft

Training Guides 932
Microsoft

Translation 857
Lernout & Hauspie

Typing 858
Mindscape

Upgrades & Trade Ups 815-818
Borland, Corel, Lotus, Symantec

Utilities 859-861, 863-866, 870, 898
Adaptec, Executive Software, Microsoft, Network Associates, PowerQuest, Symantec

Web Authoring 883
Microsoft

Web Management 883
Microsoft

Word Processing 826
Microsoft

Zip 862
Nico Mak Computing, PKWare

SOFTWARE

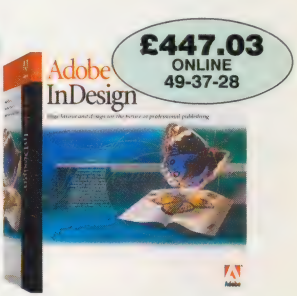
Adobe FrameMaker 6.0 837
Adobe Illustrator V9.0 839
Adobe InDesign 1.5 841
AND Route 66 Britain 2000 936
Borland JBuilder 3.5 Enterprise ... 835
Borland JBuilder 3.5 Professional 835
Citrix Management Services for MetaFrame 907
ClearPoint Firewall 1 Internet Gateway V4.1 929
Computer Associates NetworkIT 2.0 Advanced Edition 920
CorelDRAW 8 Classic 843
Corel Linux 895
Executive Software Undelete Server/Workstation 915
IBM ViaVoice Millennium Edition .. 855
Intuit QuickBooks 8.0 891
L&H Power Translator Pro 857
L&H Voice Xpress Pro 857
Macromedia Dreamweaver 3 881
Macromedia Dreamweaver UltraDev 881
Macromedia Volume licensing programme 806
McAfee Internet Guard Dog 866
McAfee VirusScan 5.0 866
Microsoft AutoRoute Euro 2001 (Europe & GB) 937
Microsoft Leisure Titles 939
Microsoft MapPoint 2001 935
Microsoft Project 2000 885
Microsoft TechNet 934
Microsoft Training Guides – MCSE 933
Microsoft Training Guides 932
Microsoft Training Guides – Desktop 2000 930
Microsoft Training Guides – Windows 2000 931
Microsoft Visio 2000 Enterprise ... 851
Microsoft Visio 2000 Professional 849
Microsoft Visio 2000 Standard 848
Microsoft Visio 2000 Technical ... 850
Network Associates Active Virus Defense 867
PowerQuest DriveImage 3.0 860
QuartXPress 4.1 842
Red Hat Linux 6.2 895
Scansoft Pagis Pro Millennium 846
Scansoft ScanSuite Plus 845
Symantec NAV Small Business Solution – Desktop/Server Edition 913
Symantec NAV Small Business Solution – Managed Protection Suite 913
Symantec Norton Antivirus Enterprise Solution 913
Symantec Norton Antivirus Small Businews Solution 913
Symantec pcAnywhere 9.2 ... 816, 872
Symantec WinFax Pro 10.0 ... 816, 871



Macromedia Dreamweaver Ultra Dev.
See page 881.



Borland JBuilder 3.5.
See page 835.



Adobe InDesign 1.5.
See page 841.



QuarkXPress V4.1.
See page 842.



Microsoft Visio Standard.
See page 848.



McAfee Internet Guard Dog.
See page 866.

Lower prices on-line at action.com

SOFTWARE BY MANUFACTURER

Adaptec
Easy CD Creator Deluxe 4.0 859

Adobe
Acrobat 4.0 839
Acrobat 4.0 (Mac) 839
Acrobat 4.0 Upgrade 839
Acrobat 4.0 Upgrade (Mac) 839
Adobe FrameMaker 6.0 837
After Effects 3.1 (Mac) 837
After Effects 4.1 837
Design Collection 841
Dynamic Media Collection 2.0 841
FrameMaker 5.5 837
FrameMaker 5.5 (Mac) 837
FrameMaker 6.0 837
FrameMaker 6.0 – (Mac) 837
Illustrator V9.0 839
Illustrator V9.0 (Mac) 839
InDesign 1.5 841
PageMaker Plus 6.5 839
PageMaker Plus 6.5 Upgrade 839
Page Mill 3.0 837
Page Mill 3.0 Upgrade 837
Photoshop v5.5 (Mac) 819
Photoshop v5.5 Upgrade (Mac) 819
Photoshop 5.5 840
Premiere 5.1 837
Premiere 5.1 Upgrade 837
Publishing Collection 7.0 838
Streamline 4.0 837
Streamline 4.0 Upgrade 837
Web Collection 1.0 841

AND
Route 66 Britain 2000 936
Route 66 Europe 936

Autodesk
AutoCAD LT 2000 853
AutoCAD LT 2000 Upgrade 853
AutoCAD Symbols 2000 853
AutoCAD 2000 854

Avery
LabelPro V2.09 858

Borland
C++ Builder 5.0 Professional 835
C++ Builder 5.0 Pro Upgrade 835
C++ Builder 5.0 Standard 835
Delphi 5.0 835
JBuilder 3.5 Enterprise 835
JBuilder 3.5 Professional 835

Caere
OmniForm 4.0 847
PageKeeper Pro 3.0 847

Check Point
FireWall-1 Internet Gateway 929

Citrix
MetaFrame 1.8 907
Thin-Print V1.0 Server 907
WinFrame 1.8 908

Computer Associates
AimIT 919
Anti-Virus Agent 923
ARCserverIT 6.61 Advanced Ed 922
ARCserverIT 6.61 Enterprise Ed 922
ARCserverIT 6.61 Workgroup Ed 922
Backup Agent 923
DoubleIT 919
GuardIT 919
InoculateIT 4.53 Advanced Ed 921
InoculateIT 4.53 Workgroup Ed 921
NewtworkIT 2.0 Advanced Edition 920
ServiceIT 919
ShipIT 919
Storage Essentials Suite 920
SurviveIT Upgrade 920
SurviveIT 4.5 Advanced Ed 920

Content Technologies Ltd
MAILsweeper 916
MIMEsweeper 916
WEBsweeper 916

Corel
CorelDraw Office 2000 843
CorelDraw Office 2000 Upgrade 843
Corel Draw v8.0 (Mac) 819
CorelDraw 8 Classic 843
CorelDraw 9.0 843
CorelDraw 9.0 Upgrade 843
Galley Magic 380,000 852
Galley 1,000,000 852
Galley 1,300,000 852
Linux OS 895
Paradox 9 829
Paradox 9 Upgrade 829

Digital Workshop
Paint Shop Pro 6.0 844

Dragon Systems
Dragon NaturallyClear 856
Dragon NaturallySpeaking Mobile 4.0 856
Dragon NaturallySpeaking Preferred 4.0 856

Equisys
Zetafax 6.0 918
Zetafax 6.0 Upgrade 918
Zetafax 6.2 917

Esker
SmarTerm 875

Executive Software
Diskeeper 5.0 861
Undelete 2.0 915

FileMaker
FileMaker Pro 5.0 829
FileMaker Pro 5.0 (Mac) 819
FileMaker Pro 5.0 Upgrade 829
FileMaker Pro 5.0 Upgrade (Mac) 819

Hummingbird
Exceed 6.x 877
Host Explorer 877
NFS Maestro 877

IBM
ViaVoice Millennium Pro 855
ViaVoice Millennium Standard 855
ViaVoice Web Millennium Edition 855

Interact
ACT! 2000 886

Intuit
QuickBooks 8.0 891
Quicken 2000 Deluxe 891
Quicken 2000 Standard 891

LapLink.com
LapLink Enterprise 878
LapLink 2000 878

Lotus
Domino R5 892
Notes R5 893
Organizer 6.0 887
SmartSuite MillenniumEdition 9.5 824
SmartSuite MillenniumEdition 9.5 Upgrade 824
1-2-3 Millennium Edition 827

Macromedia
Director Studio Upgrade (Mac) 819
Director 8 Shockwave Studio 882
Dreamweaver UltraDev 881
Dreamweaver 3.0 881
Dreamweaver 3.0 & Fireworks Studio 3.0 881
Fireworks 3 881
Flash Freehand Studio 880
Flash FreeHand 9.0 880
Flash 4.0 880
FreeHand 9.0 880

Microsoft
Access 2000 828
Access 2000 Upgrade 828
Age of Empires 939
Age of Empires 2.0 939
AutoRoute Europ 2001 937
BackOffice SBS 4.5 903
BackOffice SBS 4.5 Upgrade 903
BackOffice Server 4.5 904
BackOffice Server 4.5 Upgrade 904
Combat Flight Simulator 939
Encarta Deluxe 2000 938
Encarta Ref Suite 2000 938

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

SOFTWARE BY MANUFACTURER – continued

Encarta Standard 2000 938
Encarta World Atlas 2000 938
Encarta World Dictionary 1.0 938
Excel 2000 826
Excel 2000 Upgrade 826
Excel 98 (Mac) 819
Excel 98 Upgrade (Mac) 819
Exchange Server Enterprise 5.5 894
Exchange Server 5.5 894
Exchange Server 5.5 Enterprise 910
Exchange Server 5.5 Enterprise U/G . . 910
Exchange Server 5.5 Standard 910
Exchange Server 5.5 Standard U/G . . . 910
Exchange Server 5.5 Upgrade 894
Flight Simulator 2000 Pro 939
FoxPro 6.0 830
FoxPro 6.0 Upgrade 830
FrontPage 1.0 (Mac) 819
FrontPage 2000 883
FrontPage 2000 Upgrade 883
Golf 99 939
Greetings 2000 938
Home Publisher Suite 2000 . . . . 836, 938
Home Publisher 2000 836
Home Publishing 2000 938
MapPoint 2001 935
Money Deluxe 2000 938
Money 2000 Business & Personal 2000 938
Office 2000 Developer Tools 823
Office 2000 Developer Tools Upgrade . 823
Office 2000 Premium 820
Office 2000 Premium Upgrade 820
Office 2000 Professional 821
Office 2000 Professional Upgrade 821
Office 2000 SB 823
Office 2000 Standard 822
Office 2000 Standard Upgrade 822
Office 98 (Mac) 819
Office 98 Upgrade (Mac) 819
Outlook 2000 887
Pandora's Box 1.0 939
PhotoDraw 2000 844
PhotoDraw 2000 Upgrade 844
PowerPoint 2000 826
PowerPoint 2000 Upgrade 826
Projector 4.0 884
Project 2000 885
Project 4.0 884
Project 4.0 (Mac) 819
Project 98 884
Project 98 Upgrade 884
Publisher 2000 836
Publisher 2000 Upgrade 836
SQL Server V7.0 911
SQL Server V7.0 Enterprise Ed 911
SQL Server V7.0 Enterprise Ed U/G . . . 911
SQL Server V7.0 Upgrade 911
TaxSaver 99 v1.0 . . . . . 889, 935
Team Manager 97 884
Visio Professional 2000 849
Visio Professional 2000 Upgrade 849
Visio 2000 Enterprise 851
Visio 2000 Enterprise Upgrade 851
Visio 2000 Standard 848
Visio 2000 Standard Upgrade 848
Visio 2000 Technical 850
Visio 2000 Technical Upgrade 850
Visual Basic Enterprise 6.0 831
Visual Basic Enterprise 6.0 Upgrade . . 831
Visual Basic Professional 6.0 Upgrade 831
Visual Basic Standard 6.0 831
Visual Basic Standard 6.0 Upgrade . . . 831
Visual C++ Enterprise 6.0 832
Visual C++ Enterprise 6.0 Upgrade . . 832
Visual C++ Professional 6.0 832
Visual C++ Professional 6.0 Upgrade 832
Visual InterDev Pro 6.0 830
Visual InterDev Pro 6.0 Upgrade 830
Visual J++ Professional 6.0 830
Visual J++ Professional 6.0 Upgrade 830
Visual J++ Standard 6.0 830
Visual J++ Standard 6.0 Upgrade . . . 830
Visual Studio Enterprise 6.0 833
Visual Studio Enterprise 6.0 Upgrade . 833
Visual Studio Professional 6.0 833
Visual Studio Professional 6.0 Upgrade 833
Windows Advanced Server 2000 901
Windows Advanced Server 2000 Upgrade 901
Windows CAL 2000 902
Windows Professional 2000 899
Windows Professional 2000 Upgrade . 899
Windows Server 2000 900
Windows Server 2000 Upgrade 900
Windows Terminal Services 2000 902
Windows 98 Refresh Second Edition . 898
Word 2000 826
Word 2000 Upgrade 826
Word 98 (Mac) 819
Word 98 Upgrade (Mac) 819
Works Suite 2000 825
Works Suite 2000 Upgrade 938
Works 2000 . . . . . 825, 938
Worldbook Enclyclopaedia 99 939

Mindscape

Mavis Beacon Teaches Typing V9.0 . . 858

NetObjects

Fusion 5.0 882
TeamFusion 1.0 882

Net Partners

WebSense 916

Network Associates

Dr Solomon's VirusScan V5.0 866
Internet Guard Dog 866
McAfee Active Virus Defense . . . 867–868
McAfee Office 2000 Professional 866
NAI Total Service Desk 869
Sniffer Total Network Visibility 912

Nico Mak Computing

WinZip 7.x 862

Novell

GroupWise MailBox 5.5 909
GroupWise MailBox 5.5 U/G 909
NetWare 3.2 906
NetWare 3.2 Upgrade 906
NetWare 5.1 905
NetWare 5.1 Upgrade 906

Persoft

SmarTerm 875

PKWare

PKZip V2.7 862

PowerQuest

DriveImage 3.0 860
DriveImage Pro 3.0 860
DriveImage 2.0 860
PartitionMagic 5.0 860
PartitionMagic 5.0 Upgrade 860
ServerMagic Standard 3.0 915

Quark

QuarkXpress V4.1 (Mac) 819
QuarkXPress 4.1 842

Red Hat

Linux 6.2 Deluxe 895
Linux 6.2 Professional 895
Linux 6.2 Standard 895

Sage

Instant Accounting 2000 889
Instant Payroll 2000 889
Line 50 Accountant 5.0 890
Line 50 Financial Controller 5.0 890
Payroll 5 890

Scansoft

OmniPage Pro 10.0 845
OmniPage Pro 10.0 Upgrade 845
ScanSuite Plus 845
ScanSuite Plus Upgrade 845

Seagate Software

Crystal Reports Developer 8.0 888
Crystal Reports Professional 8.0 888
Crystal Reports Professional 8.0 Upgrade 888
Crystal Reports Standard 8.0 888
Crystal Reports Standard 8.0 Upgrade 888

SoftQuad

HoTMetaL PRO 6.0 879

Softwair

Travelmanager 936

Sophos

Anti-Virus File Server 914

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

SOFTWARE BY MANUFACTURER – continued

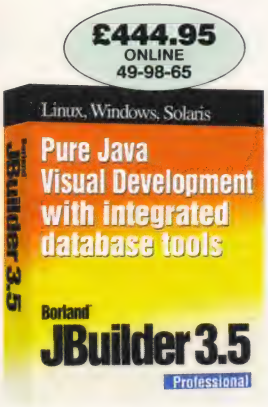
Symantec
I-Gear 873
NAV Small Business Solution – Desktop/ Server Edition 913
NAV Small Business Solution – Managed Protection Suite 913
Norton AntiVirus Enterprise Solution . . 913
Norton AntiVirus 2000 870
Norton AntiVirus 6.0 819
Norton Ghost 5.1 Personal 863
Norton Internet Security 2000 1.0 873
Norton SystemWorks 2000 864
Norton SystemWorks 2000 Upgrade. . 864
Norton Utilities V2.0 865
Norton Utilities v5 (Mac) 819
Norton Utilities 2000. 865
Norton Utilities 2000 Upgrade. 865
Norton 2000 870
pcAnywhere 9.2 Host. 872
pcAnywhere 9.2 Host Upgrade 872
pcAnywhere 9.2 Remote 872
pcAnywhere 9.2 Remote Upgrade . . . 872
TalkWorks Pro 3.0 871
WinFax Pro 10.0 871

VERITAS
Backup Exec 7.3 926
Backup Exec 8.0 924
Backup Exec 8.0 NSE. 926
Backup Exec 8.5 925
Telebackup 2.5 927

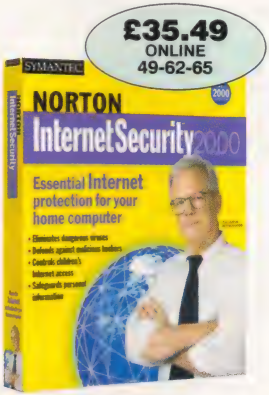
Visioneer
PaperPort Deluxe 6.0 846

Walker Richer & Quinn Inc.
Reflection. 876

Xerox
Pagis Pro Millennium 846
Textbridge Pro Millennium 846
Textbridge Pro 8.0 (Mac) 819
Textbridge Pro 9.0 Business Edition . . 846



Borland JBuilder 3.5 Professional. See page 835.



Symantec Internet Security. See page 873.



Red Hat Linux 6.2 Professional. See page 895.

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

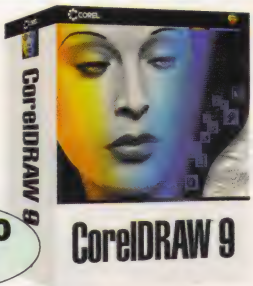
PRODUCTS FOR: WINDOWS 3.X, WINDOWS 95, WINDOWS 98, WINDOWS NT

UPGRADES, TRADE-UPS & LICENCES

COREL



Corel Upgrades allow existing Corel Licence users to ensure that all of their software is of the latest version.



DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
CorelDRAW 9.0 **Upgrade**	WIN 95/98/NT	49-31-13	154.95	➧	169.00	168.60
CorelDRAW 9.0 Office Edition **Upgrade**	WIN 95/98/NT	49-19-17	112.19	➧	113.95	113.49
CorelDRAW 9.0 Premium **Upgrade**	WIN 95/98/NT	49-50-18	295.00	➧	299.00	298.00
Corel WordPerfect Office 2000 Standard **Upgrade**	WIN 95/98/NT	49-53-75	102.99	➧	104.99	104.59
Corel Paradox 9 Version **Upgrade**	WIN 95/98/NT	49-49-87	62.49	64.85	64.49	63.95

UPGRADES, TRADE-UPS & UPGRADE LICENCES

Lotus



Lotus offer upgrades and trade-ups to the latest versions of their software for Windows, Windows 95, Windows 98 and NT. In order to upgrade you will need to be running a previous version of the Lotus application or a comparable competitive application of the same type i.e. spreadsheet, wordprocessor, database, presentation graphics or desktop suite. You also have the advantage of being able to upgrade to Lotus Smartsuite from any component application within Smartsuite (1-2-3, Approach, Freelance Graphics & WordPro).

LLP Licence Upgrades can be purchased by users who have a number of users with a previous version of an application. You will need to purchase one LLP Upgrade for each existing user.

LLP Licence Upgrades contain no disks or documentation they are only valid for existing LLP users.

With **Lotus Smartsuite Millennium Edition,** you get five easy to use applications which are tightly integrated to make it easier for you to get your job done – whether you work alone, or as part of a team.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO 3½"	CAT NO CD-ROM	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DESKTOP SUITES							
Smartsuite Millennium 9.5 **U/G**	WIN 95/98/NT	–	49-54-77	112.99	➧	113.95	113.75
Smartsuite R4.5 **Upgrade**	WIN 3.x	38-48-67	38-48-81	117.25	➧	119.85	118.85
Smartsuite R4.5 **Upgrade 1LLP** (Media not included)	WIN 3.x	38-49-08	38-49-08	101.49	➧	103.95	103.49

OTHER ITEMS

FOR DEFINITIONS OF UPGRADES SEE PAGES 789, 790
FOR LOTUS SMARTSUITE SEE PAGE 824
FOR LOTUS 1-2-3 SEE PAGE 827

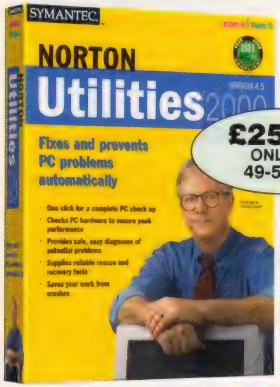
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: DOS, WINDOWS, WINDOWS 95, WINDOWS 98, WINDOWS 2000, WINDOWS NT

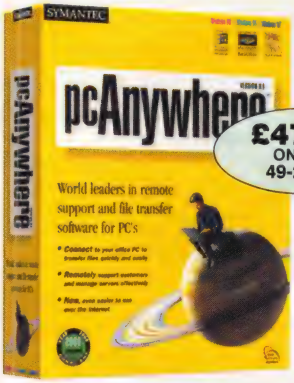
VERSION UPGRADES

SYMANTEC.™

In order to qualify for a **Symantec upgrade,** customers need to provide proof of purchase of a previous version of the Symantec product concerned. For further details regarding qualification contact Action.

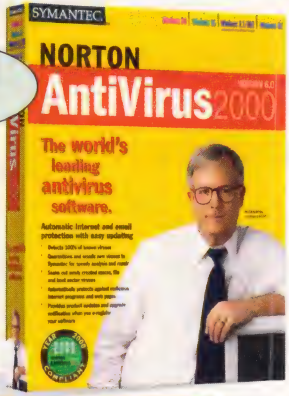


£25.45 ONLINE 49-55-21



£47.86 ONLINE 49-28-23

£16.95 ONLINE 38-29-37



£21.18 ONLINE 43-30-88



CHECK MEDIA BEFORE YOU BUY

www.action.com/symantec

	DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	Norton AntiVirus 2000 **Version Upgrade**	X-Platform	38-29-37	16.95	19.95	19.35	18.77
	Norton AntiVirus 2000 **Version Upgrade 5 SMLP**	X-Platform	36-99-56	110.95	◗	119.95	118.75
NEW	pcANYWHERE 9.2 Host/Remote **Version Upgrade**	WIN 95/98/2K/NT	49-39-55	78.17	79.95	79.47	78.99
NEW	pcANYWHERE 9.2 Host Only **Version Upgrade**	WIN 95/98/2K/NT	49-28-23	47.86	48.95	48.66	48.36
NEW	pcANYWHERE 9.2 Remote Only **Version Upgrade**	WIN 95/98/2K/NT	49-37-22	56.66	57.95	57.60	57.26
NEW	WINFax PRO 10.0 **Version Upgrade**	WIN 95/98/2K/NT	43-30-88	21.18	21.99	21.77	21.55
NEW	WINFax Pro 10.0 **Competitive Upgrade**	WIN 95/98/2K/NT	43-53-44	29.84	30.99	30.68	30.37
	Norton Utilities 2000 **Version Upgrade**	WIN 95/98	49-55-21	25.45	26.99	26.75	26.45

OTHER ITEMS FOR SYMANTEC PRODUCTS SEE PAGES 863–865

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS WINDOWS 95, WINDOWS 98, WINDOWS NT

VERSION UPGRADES

VISIO



£63.38
ONLINE
90-52-99

Upgrade your old versions of Visio and Visio Technical more cost effectively than purchasing the full product. Visio upgrades are compliance checking, so a valid previous version of the software is required for the upgrade to take place.

FOR DEFINITIONS OF VERSION AND COMPETITIVE UPGRADES SEE PAGES 789, 790

DESCRIPTION	FORMAT	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Visio 2000 **Version Upgrade**	WIN 95/NT	90-52-99	63.38	63.95	63.79	63.63	NEW
Visio Technical 2000 **Version Upgrade**	WIN 95/NT	86-87-29	126.13	◗	126.95	126.63	NEW
Visio Professional 2000 **Version Upgrade**	WIN 95/98/NT	64-78-48	126.13	◗	126.95	126.63	NEW
Visio Enterprise 2000 **Version Upgrade**	WIN 95/98/NT	38-30-46	427.09	◗	429.99	428.49	NEW

VERSION UPGRADES

MICROGRAFX



£463.38
ONLINE
49-95-56

Micrografx iGrafx Process provides powerful graphical modelling and simulation, as well as comprehensive diagramming capabilities.

FEATURES:

- Professional flowcharts based on Micrografx FlowCharter.
- Perform "What If" analysis on your Flowcharts.
- Track-down and zap bottlenecks.
- Plan staffing levels, equipment availability and working patterns ahead of the event.

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
iGrafx Process **Version Upgrade**	WIN 95/98/NT	49-95-56	463.38	◗	479.95	475.15
iGrafx Professional **Version Upgrade**	WIN 95/98/NT	49-22-69	175.05	◗	179.95	178.15

VERSION UPGRADES

Borland®
www.inprise.co.uk



£242.49
ONLINE
49-95-61

Borland Version Upgrades are compliance-checking, so a valid previous version of the software is required before the upgrade can be installed.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Delphi 5.0 Professional **Version Upgrade**	WIN 95/98/NT	49-95-61	242.49	◗	244.95	244.49	
JBuilder 3.5 Pro **Version Upgrade**	WIN/Linux/Solaris	49-96-38	218.82	◗	224.95	222.70	NEW
JBuilder 3.0 Pro – 3.5 Pro **Version Upgrade**	WIN/Linux/Solaris	49-71-49	60.62	62.95	62.32	61.70	NEW
JBuilder 3.5 **Enterprise Upgrade**	WIN/Linux/Solaris	49-23-77	1080.80	◗	◗	1099.95	NEW
C++Builder 4 Pro **Version Upgrade**	WIN 95/98/NT	49-43-24	240.40	◗	249.00	246.51	
C++ Builder 5.0 Pro **Version Upgrade**	WIN 95/98/NT	49-71-37	231.95	◗	234.95	233.95	

OTHER ITEMS

FOR SOFTWARE PUBLISHER INDEX SEE PAGES 810–814
FOR VISIO LICENSING SEE PAGE 806
FOR BORLAND LICENSING SEE PAGE 807

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS 2000, WINDOWS NT, MAC

COMPLIANCE CHECKING UPGRADES



£63.04 ONLINE 38-30-01

Free PageKeeper Pro 3.0 with OmniPage Pro V10.0 U/G While Stocks Last

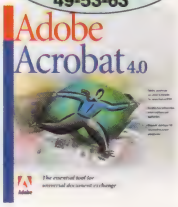
OmniPage Pro 9.0 includes a host of new and enhanced features that make OCR more accurate, more robust and easier to use than ever before.

DESCRIPTION	MEDIA INC.	FORMAT	CAT NO 3½"	CAT NO CD-ROM	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
OmniPage Pro V6.0 **U/G**	YES	WIN 3.x	35-28-68	—	64.52	67.50	66.82	66.16
OmniPage Pro V10.0 **U/G CCP**	YES	WIN 95/98/NT	—	38-30-01	63.04	65.95	65.29	64.64

COMPLIANCE CHECKING UPGRADES

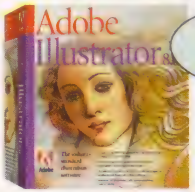
Adobe upgrades are compliance checking and you are therefore required to have a valid previous version in order to install the upgrade. Adobe upgrades will not upgrade from Lite products.

£60.95 ONLINE 49-53-63

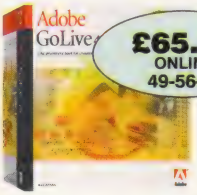




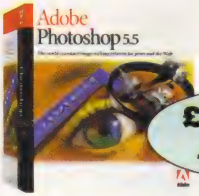
£63.69 ONLINE 49-49-63



£93.82 ONLINE 49-37-30



£65.44 ONLINE 49-56-21



£84.39 ONLINE 49-54-87

	DESCRIPTION	MEDIA INC.	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	PageMaker V6.5 Plus **CCP Upgrade**	YES	WIN 95/98/NT	49-49-63	63.69	64.95	64.49	64.25
	Acrobat 4.0 **CCP Upgrade**	YES	WIN 95/98/NT	49-53-63	60.95	64.95	64.30	63.66
NEW	Illustrator V8.0–V9.0 **CCP Upgrade**	YES	WIN 95/98/2K	49-37-30	93.82	95.95	95.37	94.80
NEW	GoLive V4.0–V5.0 **CCP Upgrade**	YES	WIN95/98/NT	49-56-21	65.44	67.95	67.27	66.60
NEW	FrameMaker V6.0 **CCP Upgrade**	YES	WIN95/98/2K/NT	49-96-58	144.77	◗	149.95	148.45
	Photoshop 5.0 – 5.5 **CCP Upgrade**	YES	WIN 95/98/NT	49-54-87	84.39	84.99	84.89	84.79
	PageMill 3.0 **CCP Upgrade**	YES	WIN 95/98/NT	49-34-42	37.95	39.85	39.75	39.59
	PageMaker V6.5 Plus **CCP Upgrade**	YES	MAC	49-08-53	66.86	69.95	69.25	68.56
	Acrobat 4.0 **CCP Upgrade**	YES	MAC	49-94-85	62.55	64.95	64.30	63.66
	PhotoShop 5.0 – 5.5 **CCP Upgrade**	YES	MAC	49-08-88	84.39	84.99	84.89	84.79

OTHER ITEMS

FOR UPGRADE DEFINITIONS SEE PAGES 789–791
FOR ADOBE LICENSING SEE PAGE 806
FOR MORE ADOBE PRODUCTS SEE PAGES 837–841

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: MAC

MACINTOSH SOFTWARE



£174.38
ONLINE
42-99-11



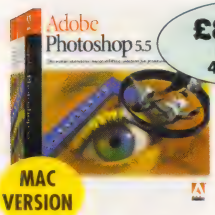
£71.64
ONLINE
52-99-37



£789.79
ONLINE
38-53-45

NEW!

MAC VERSION



£84.39
ONLINE
49-08-88

MAC VERSION



£95.34
ONLINE
49-55-43



£54.99
ONLINE
49-55-74

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Microsoft Office 98	MAC	42-99-04	323.81	◗	324.95	324.63	
Microsoft Office 98 **Version Upgrade**	MAC	42-99-11	174.38	◗	174.99	174.82	
Microsoft Excel 98	MAC	43-69-80	248.01	◗	254.95	252.40	
Microsoft Excel 98 **Version Upgrade**	MAC	43-69-97	95.34	99.00	98.01	97.03	
Microsoft Word 98	MAC	43-69-66	248.01	◗	254.95	252.40	
Microsoft Word 98 **Version Upgrade**	MAC	43-69-73	95.34	99.00	98.01	97.03	
Microsoft Project 4.0	MAC	30-45-55	298.00	◗	299.95	298.45	
Microsoft FrontPage 1.0	MAC	49-55-43	95.34	99.00	98.01	97.03	
QuarkXpress V4.1	MAC	38-53-45	789.79	◗	794.95	792.96	NEW
Adobe Photoshop 5.5	MAC	49-23-30	387.42	◗	389.95	388.98	
Adobe Photoshop 5.5 **Upgrade from 3.0/4.0**	MAC	49-13-08	122.91	◗	124.95	124.20	
Adobe Photoshop 5.5 **Upgrade from 5.0**	MAC	49-08-88	84.39	84.99	84.89	84.79	
Symantec Norton Utilities 5.0	MAC	52-99-37	71.64	74.95	74.20	73.46	
Symantec Norton AntiVirus 6.0	MAC	52-99-96	48.10	49.95	49.45	48.96	
Filemaker Pro 5.0	MAC	49-32-95	207.99	◗	209.95	209.75	
FileMaker Pro 5.0 **Version Upgrade**	MAC	49-32-89	112.49	◗	114.95	114.49	
CorelDRAW 8.0	MAC	47-79-01	278.49	◗	279.85	279.49	
Xerox TextBridge Pro 8.0	MAC	49-55-74	54.99	56.95	56.59	56.19	
Macromedia Director Studio **Upgrade**	MAC	24-11-13	379.00	◗	388.00	387.00	

OTHER ITEMS

FOR APPLE MACS & ACCESSORIES SEE PAGES 126–135

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

DESKTOP SUITES

Microsoft



The most comprehensive productivity solution ever, **Office 2000 Premium** delivers on the promise of the web. It gives you nine powerfully integrated applications that make it easier than ever to access and share information so you can make better decisions.

FEATURES:

- **Includes 9 fully integrated applications:** Microsoft Word 2000; Microsoft Excel 2000; Microsoft Access 2000; Microsoft Publisher 2000; Microsoft Small Business Tools; Microsoft PowerPoint 2000; Microsoft FrontPage 2000; Microsoft PhotoDraw 2000 and Microsoft Outlook 2000.

Publisher's quoted system requirements:
Pentium 166MHz or higher processor, Windows® 95, Windows 98 or Windows NT® Workstation 4.0 plus Service Pack 3 or later. Windows 95 or Windows 98 requires 16MB RAM, 32MB RAM for Windows NT Workstation, plus an additional 4MB RAM for each application running simultaneously. 8MB required for Outlook, Access, or FrontPage, 16MB for PhotoDraw.

- **Word Click-n-Type.** Users can easily add text or graphics to any part of a page by simply double-clicking. Once the cursor is on the page, all they have to do is start typing.
- **Excel See Through View.** Instead of an inverse video selection (in previous versions) that can hide information when cells are selected, See-Through View in Excel 2000 lightly shades selected cells so that users can make formatting changes to selected cells and see the result from de-selecting cells.
- **PowerPoint Tri-Pane View.** Combines the slide, outline and notes view into a single view, enabling users to quickly and easily add or change slides, notes and presentation outlines.
- **Access name AutoCorrect.** As users rename database objects like Tables, references to those objects are automatically updated in dependent objects like Queries and Forms so users can continue to view linked information.
- **Junk E-mail Filters.** Automatically handles commercial and adult content junk e-mail received from the Internet, based on user settings.
- **Outlook Contact Activity Tracking.** Users can easily keep track of all e-mail, tasks, appointments and documents related (linked) to each contact, and groups of users can manage shared Contact lists in Exchange Server Public Folders.

Microsoft Certified Solution Provider Partner

Customers now only require 5 licenses to participate in Microsoft's new open 5.0 licensing programme call 08701 633 300 for more details.

CHECK MEDIA BEFORE YOU BUY

www.action.com/microsoft

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Office 2000 Premium	WIN 95/98/NT	52-70-21	507.29	♦	509.95	509.39
Office 2000 Premium **Upgrade**	WIN 95/98/NT	52-22-63	259.95	♦	263.95	263.39
Resource Kit: MS Office 2000	MANUAL/CD	49-08-48	36.55	37.99	37.79	37.55
Running MS Office 2000 Premium	MANUAL	49-49-59	30.99	32.79	32.45	32.10

OTHER ITEMS

FOR MEMORY UPGRADES SEE PAGES 190–205
FOR MICROSOFT LICENSING SEE PAGES 792–795
FOR MICROSOFT PERIPHERALS SEE PAGES 280–282, 290

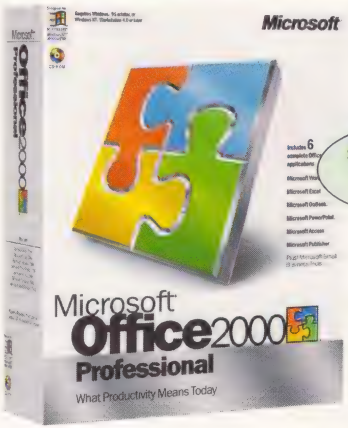
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

DESKTOP SUITES

Microsoft

Office 2000 Professional is rich in capabilities and easy to use, providing seven integrated productivity solutions you need to make smarter business decisions. From high profile projects to the tasks you do every day, this is the one you'll depend on to get the job done.



£203.95
ONLINE
52-76-56

APPLICATIONS:

- **Microsoft Word 2000** was designed to be the easiest way to create common web, e-mail and print documents around the world, by offering streamlined information sharing and enhanced workgroup collaboration, ease of use improvements and new levels of resiliency and personalisation.
- **Microsoft Excel 2000** elevates HTML to the same level as its own propietary file format, allowing you to easily create and share rich Web documents with the same Microsoft Office tools you use to create printed documents.
- **Microsoft Access 2000** brings not only the traditional broad range of tools but also adds more productivity features, database Web document creation, increased integration with SQL Server, and a tight office programmability model.
- **Microsoft PowerPoint 2000** combines new ease-of-use features that speed users through presentation development, the ability to create Web-based presentations and the ability to easily present to remote audiences.
- **Microsoft Publisher 2000** includes over 2000 professionally designed publication templates, over 200 fonts, thousands of pieces of high-quality clip art, photographs design gallery elements, plus Web sounds and backgrounds.
- **Microsoft Outlook 2000's** new messaging and collaboration client is designed to be easier to learn and use, offering new ways to collaborate and share information across the Internet. Outlook 2000 provides you with industry leading support of Internet standards, advanced e-mail and information management and improved remote usage capabilities.

Publisher's quoted system requirements:
Pentium 75MHz or higher processor, Windows® 95, Windows 98 or Windows NT® Workstation 4.0 with Service Pack 3 or later. Windows 95/98 requires 16MB of RAM, Windows NT Workstation 32MB RAM plus an additional 4MB RAM for each application running simultaneously. CD-ROM drive. Available hard disk space for installation: disc 1: 217MB, Disc 2: 174MB.

Customers now only require 5 licenses to participate in Microsoft's new open 5.0 licensing programme call 08701 633 300 for more details.

CHECK MEDIA BEFORE YOU BUY

www.action.com/microsoft

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Office 2000 Professional	WIN 95/98/NT	52-12-48	419.59	▶	420.95	420.79
Office 2000 Professional **Competitive Version Upgrade**	WIN 95/98/NT	52-76-56	203.95	▶	204.95	204.75
Office 4.3 Pro	WIN 3.x	33-64-99	423.51	▶	424.95	424.53
Office 4.3 Pro **Competitive Upgrade**	WIN 3.x	35-24-80	282.96	▶	283.95	283.67
Resources Kit: MS Office 2000	MANUAL/CD	49-08-48	36.55	37.99	37.79	37.55
Running Office 2000 Pro	MANUAL	49-12-58	24.45	25.79	25.65	25.49

OTHER ITEMS

FOR MEMORY UPGRADES SEE PAGES 190–205
FOR MICROSOFT LICENSING SEE PAGES 792–795

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS 3.x, WINDOWS 95, WINDOWS 98, WINDOWS NT

DESKTOP SUITES

Microsoft



- **Self-repairing applications.** No more error messages when starting Office as it automatically detects and fixes applications errors berore users know they exist.
- **Detect and repair.** A new tool that Office 2000 users invoke from the help menu to identify and repair problems with non-critical files, such as fonts and templates.
- **Install and demand.** To minimise hard disk consumption, less commonly used features and tools are installed 'on-the-fly' when needed.
- **Office AntiVirus API.** Third party software vendors can create anti-virus utilities to scan Office documents before they are loaded into Office 2000.
- **Collect and paste.** Copy up to 12 items and store them in the new Microsoft Office Clipboard, paste each item mulitiple times and in any order, making it simple to gather informations from multiple sources.

Microsoft® Office has established a position as the most efficient suite of applications for document creation, communications and business information analysis. For many functions, the business platform has evolved from paper to the Web. **Microsoft Office 2000 Standard** extends desktop productivity to the web, streamlining the way you work and making it easier to share, access and analyse information to get you better results.

FEATURES:

- **Includes 4 fully integrated applications:** Microsoft Word 2000, Microsoft Excel 2000, Microsoft PowerPoint 2000 and Microsoft Outlook 2000.
- **Web-enabled collaboration and information sharing.** Offers a new Web-productivity work style that integrates core productivity tools with the Web to streamline the process of sharing information and working with others.
- **Rich analysis tools for better decision-making.** Makes it easier to use an organisation's intranet to access vital business information and provides innovative analysis tools that help users make better, more timely business decisions.
- **Software that is easy to use and manage.** Delivers new levels or resiliency and intelligence, enabling users and organisations to get up and running quickly, stay working and achieve great results with fewer resources.

Publisher's quoted system requirements: Pentium 75MHz or higher processor. Windows® 95, Windows 98, or Windows NT® Workstation 4.0 with Service Pack 3 or later. Windows 95/98 requires 16MB RAM, Windows NT Workstation requires 32MB RAM, plus an additional 4MB RAM for each application running simultaneously. CD-ROM drive. Available hard disk space for installation 189MB but will vary according to configuration.

Customers now only require 5 licenses to participate in Microsoft's new open 5.0 licensing programme call 08701 633 300 for more details.

Microsoft Certified Solution Provider Partner

www.action.com/microsoft

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Office 2000 Standard	WIN 95/98/NT	52-17-66	325.81	▶	326.95	326.62
Office 2000 Standard **Upgrade**	WIN 95/98/NT	52-53-53	145.99	▶	147.95	147.69
Office 4.2	WIN 3.x	33-64-82	326.80	▶	327.95	327.62
Resource Kit: MS Office 2000	MANUAL/CD	49-08-48	36.55	37.99	37.79	37.55

OTHER ITEMS

FOR MEMORY UPGRADES SEE PAGES 190–205
FOR MICROSOFT LICENSING SEE PAGES 792–795

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶Save £££'s!
▶▶Check live stock
▶▶Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

DESKTOP SUITES

Microsoft



£364.49
ONLINE
53-30-91

Microsoft Certified Solution Provider Partner

Customers now only require 5 licenses to participate in Microsoft's new open 5.0 licensing programme call 08701 633 300 for more details.



£148.69
ONLINE
52-64-64

Microsoft® Office 2000 Developer is the version of Office designed for professional developers who build and deploy solutions with Microsoft Office. Office 2000 Developer includes Office 2000 Premium and tools to build solutions faster, integrate with organisational data more easily and simplify deployment and management of solutions with Office.

FEATURES:

- Easily create standardised add-ins (DLLs) for use in any Office application.
- Reconcile file changes and prevent accidental code overwriting using Check In/Out file locking and visual differencing – all from within the Microsoft Visual Basic for Applications environment.
- Get tools for any Visual Basic for Applications 6.0 host including automatic error handling, code commenting and code transfer.

Publisher's quoted system requirements:
Pentium 75MHz or higher processor. Windows® 95, Windows 98 or Windows NT® Workstation 4.0 with Service Pack 4.0 or later. 16MB RAM for Windows 95/98, Windows NT requires 32MB of RAM, plus an additional 4MB of RAM for each application running simultaneously. Available hard disk space: 252MB for Disc 1, 174MB for Disc 2; 100MB for Disc 3. For optimal performance an additional 100MB of free hard disk space for user graphics and temporary image cache is recommended. CD-ROM drive.

Understand and manage your business information like never before using the new **Microsoft Office Small Business Tools.** Designed specifically for small businesses, this comprehensive set of tools helps you improve customer communication, streamline daily tasks and make better business decisions.

FEATURES:

- **Small Business Customer Manager** – Manage and develop customer relationships. Combine customer contact data from Microsoft Outlook® with financial data from popular accounting programs to track customer profiles and maximise revenues.
- **Business Planner** – Get templates, real-world examples and additional resources to help you produce business and marketing plans with ease.
- **Direct Mail Manager** – Easily conduct targeted, cost-effective direct mail campaigns.
- **Small Business Financial Manager** – Analyse business data and create easy-to-read financial reports in Microsoft Excel.

Publisher's quoted system requirements:
Pentium 75MHz or higher processor. Windows® 95, Windows 98 or Windows NT® Workstation 4.0 with Service Pack 3 or later. 16MB RAM for Windows 95/98 and 32MB RAM for Windows NT Workstation, plus an additional 4MB of RAM for each application running simultaneously. CD-ROM drive. Available hard disk space: 189MB but will vary according to configuration.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Office 2000 Developer	WIN 95/98/NT	52-17-71	597.45	◗	599.95	599.39
Office 2000 Developer **Comp/Version U/G**	WIN 95/98/NT	52-30-91	364.49	◗	365.95	365.69
Office 2000 Small Business	WIN 95/98/NT	52-49-47	325.89	◗	327.95	327.59
Office 2000 SB **Comp/Version Upgrade**	WIN 95/98/NT	52-64-64	148.69	◗	149.95	149.75
Resource Kit: MS Office 2000	MANUAL/CD	49-08-48	36.55	37.99	37.79	37.55
Running: MS Office 2000 SB	MANUAL	53-00-30	24.59	25.79	25.60	25.45

OTHER ITEMS

FOR MEMORY UPGRADES SEE PAGES 190–205
FOR MICROSOFT LICENSING SEE PAGES 792–795

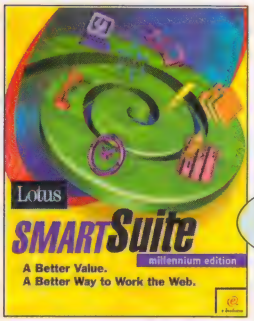
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS 3.X, WINDOWS 95, WINDOWS 98, WINDOWS NT

DESKTOP SUITES

Lotus



£112.99
ONLINE
49-54-77

Lotus SmartSuite Millennium Edition 9.5 goes beyond traditional office suites to bring you better value and a better way to work the web. Check out the award-winning spreadsheet, word processor, time and contact manager, presentation graphics sofware, database and PC multimedia recorder. Publish documents to your intranet site easily and access Internet news and weather with a click.

APPLICATIONS:

- **Lotus FastSite** makes Internet/intranet publishing fast and easy. Designed for desktop application users, it automatically converts groups of existing SmartSuite or Microsoft Office files to Web formats.
- **IBM ViaVoice** speech recognition software for dictating directly into a Word Pro document or entering data into a 1-2-3 spreadsheet.
- **Lotus 1-2-3** includes many new features like Web Tables that let you incorporate live Web-based data into your spreadsheets.
- **Lotus SmartSuite** efficiently shares data with Lotus eSuite, most popular desktop applications like Microsoft Office and integrates with enterprise databases and applications including Oracle, SAP, PeopleSoft and Lotus Notes and Domino.
- **Lotus Organizer 5.0** is an all-in-one tool to schedule appointments, keep track of business and social contacts, auto-dial phone numbers, link to favourite Web sites and share calendars.
- **Lotus Word Pro** word processor can easily create reports, documents, and proposals, and offers compatibility with Microsoft Word.
- **Lotus Approach** database now comes with Web Report, allowing you to publish print-quality reports to the Internet using jDoc Internet publishing support.
- **Lotus ScreenCam** multimedia software screen recording application can be used to demonstrate your product, teach people how to use it and help them get the most from their applications.
- **SmartCenter** enables users to access Web-based information from leading Internet companies like Yahoo, PC Quote, Intellicast, MapQuest and Travelocity without having to launch a browser.

Publisher's quoted system requirements:
Pentium 150MHz or higher, VGA adaptor and monitor. CD-ROM. Mouse or other pointing device. Windows 95/98 or NT 4.0. 8MB RAM for Windows 95. (12MB or more recommended to run multiple applications simultaneously); 16MB RAM for Windows NT. 110MB free hard disk space to install the minimum features of all the SmartSuite applications. 29MB of available disk space required to run from CD-ROM drive.
Sound card (Creative Labs Sound Blaster 16 or 100% compatible or MWave); noise-cancelling microphone (included). Lotus FastSite requires MS Internet Explorer 3.02 or later (included).

Customers requiring licensing for 25+ users require Lotus Passport Advantage.
Please see pages 797, 798 for details.

CHECK MEDIA BEFORE YOU BUY

www.action.com/lotus

DESCRIPTION	FORMAT	CAT NO 3½"	CAT NO CD-ROM	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
SmartSuite Millennium Edition 9.5	WIN 95/98/NT	–	49-32-27	312.99	▶	313.95	313.49
SmartSuite Millennium Edition 9.5 **Upgrade**	WIN 95/98/NT	–	49-54-77	112.99	▶	113.95	113.75
Lotus SmartSuite R4.5	WIN 3.x	38-48-50	38-48-74	305.37	▶	309.95	307.95
Lotus SmartSuite R4.5 **Upgrade**	WIN 3.x	38-48-67	38-48-81	117.25	▶	119.85	118.85
Lotus SmartSuite R4.5 **1 LLP**	WIN 3.x	38-48-98	38-48-98	282.05	▶	289.95	287.05
Lotus SmartSuite R4.5 **Upgrade – 1 LLP**	WIN 3.x	38-49-08	38-49-08	101.49	▶	103.95	103.49

OTHER ITEMS

FOR LOTUS LICENSING SEE PAGES 797, 798

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

INTEGRATED PACKAGES

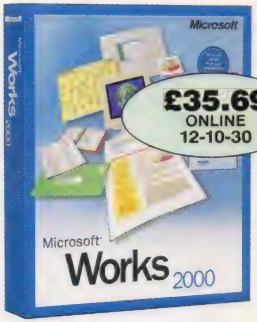
Microsoft



£73.28
ONLINE
38-29-34

Microsoft Certified Solution Provider Partner

Customers now only require 5 licenses to participate in Microsoft's new open 5.0 licensing programme call 08701 633 300 for more details.



£35.69
ONLINE
12-10-30

Microsoft Works Suite 2000 offers the complete solution for your home computing needs. Whether you're writing newsletters, creating reports for school, surfing the Internet, or managing your household finances, Works Suite 2000 gives you the software you need to complete your tasks.

FEATURES:

- Produce documents easily with Microsoft Word 2000
- Manage personal finances and use online banking with Microsoft Money 2000.
- Create personalised cards, invitations, and more with Microsoft Home Publishing 2000.
- Research school projects quickly with Microsoft Encarta 2000, the world's best-selling multimedia encyclpedia.
- Organise your household with the efficient, easy-to-use database tools in Microsoft Works 2000.
- Plan and map your travels using detailed maps from Microsoft Expedia Streets & Trips 2000.

Publisher's quoted system requirements:
Pentium 90MHz or higher. Windows 95/98 or higher . 600-700MB of available hard-disk space to run Office E-mail in Word 2000. 4x CD-ROM drive. Super VGA, 256 colour or higher resolution monitor. Local bus video with 1MB or more of video memory. 16-bit sound card. Modem (14.4 baud or faster recommended).

Microsoft Works 2000 gives you quick, easy access to what you want to do. All the essential tools for your home PC, including a word processor, spreadsheet, database calendar, and address book – all in one easy to use package.

FEATURES:

- Write letters, organise your household: the Task launcher makes it easy.
- More than 250 task templates for home use, such as household inventories, finance and letters.
- Create accurate, stylish documents easily using the formatting tools.
- Thousands of available clip-art images.
- E-mail and Web ready.
- New word processor which includes background spell check, grammar check, numbering, native table support and more.
- Task Launcher helps you get quickly started and find what you want to do.
- Answer Wizard lets you ask for help and delivers step-by-step instructions.

Publisher's quoted system requirements:
Pentium 166MHz or higher. Windows 95/98/NT workstation 4.0. 32MB RAM. 270MB of available hard disk space. 4x CD-ROM drive. Super VGA, 256 colour or higher resolution monitor. Modem (14.4 baud or faster recommended).

CHECK MEDIA BEFORE YOU BUY

www.action.com/microsoft

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
REPLACEMENT DISK: CALL MICROSOFT CONNECTION ON 0345 002 000						
Works Suite 2000	WIN 95/98/NT	38-29-34	73.28	74.95	74.50	74.05
Works 2000	WIN 95/98/NT	12-10-30	35.69	37.95	37.69	37.35
At a Glance: MS Works Suite 2000	MANUAL	12-11-10	13.15	14.79	14.60	14.39

OTHER ITEMS

FOR MICROSOFT LICENSING SEE PAGES 190–205
FOR MICROSOFT OFFICE SEE PAGES 820–828

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

WORD PROCESSING/SPREADSHEET

Microsoft



£61.89
ONLINE
52-53-54

Word 2000 combines streamlined document creation with powerful Web functionality so you can work more efficiently and communicate your ideas more effectively.

Publisher's quoted system requirements:
Pentium 75MHz or higher processor. Windows® 95, Windows 98®, or Windows NT 4.0® with Service pack 3 or later. 20MB RAM for Windows 98/NT, 36MB RAM for Windows NT Workstation. 147MB available hard disk space (varies according to configuration). CD-ROM drive. VGA or higher resolution monitor, Super VGA recommended. Mouse, IntelliMouse® or compatible pointing device.



£76.89
ONLINE
52-94-75

Discover better ways to analyse data and find solutions using **Microsoft Excel 2000** and its streamlined spreadsheet creation tools, enhanced analysis tools, and powerful Web integration.

Publisher's quoted system requirements:
Pentium 75MHz or higher processor. Windows® 95, Windows 98®, or Windows NT 4.0® with Service pack 3 or later. 20MB RAM for Windows 95/98, 36MB RAM for Windows NT Workstation. 146MB available hard disk space (varies depending on configuration). CD-ROM drive. VGA or higher resolution monitor, Super VGA recommended. Mouse, IntelliMouse® or compatible pointing device.



£76.39
ONLINE
52-12-49

Microsoft PowerPoint 2000 presentation graphics program was created to be the easiest tool for creating presentations and for presenting to audiences, whether for face-to-face meetings, meetings conducted in remote locations or for the Web.

Publisher's quoted system requirements:
P75 or higher processor. Windows 95, Windows 98 or Windows NT Workstation version 4.01. 6MB of RAM for Windows 95, Windows 98 and an additional 4MB of RAM for PowerPoint. 32MB or RAM for running with Windows NT Workstation 4.0 plus an additional 4MB of RAM for PowerPoint. 142MB available hard-disk space for typical installation. CD-ROM Drive. VGA, Super VGA Display.

CHECK MEDIA BEFORE YOU BUY

www.action.com/microsoft

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Word 2000	WIN 95/98/NT	52-36-81	231.89	➧	233.95	233.49
Word 2000 **Comp/Version Upgrade**	WIN 95/98/NT	52-53-54	61.89	63.95	63.79	63.39
Excel 2000	WIN 95/98/NT	52-53-44	231.79	➧	233.95	233.59
Excel 2000 **Comp/Version Upgrade**	WIN 95/98/NT	52-94-75	76.89	78.95	78.79	78.35
PowerPoint 2000	WIN 95/98/NT	52-22-64	230.85	➧	232.95	232.69
PowerPoint 2000 **Comp/Version Upgrade**	WIN 95/98/NT	52-12-49	76.39	78.95	78.79	78.25
At A Glance: Word 2000	MANUAL	38-29-44	13.45	14.79	14.65	14.35
At A Glance: Excel 2000	MANUAL	52-98-94	13.60	14.79	14.65	14.49
At A Glance: PowerPoint 2000	MANUAL	12-10-85	13.49	14.79	14.65	14.49

OTHER ITEMS
FOR MEMORY UPGRADES SEE PAGES 190–205
FOR MICROSOFT LICENSING SEE PAGES 792–795

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

SPREADSHEETS

Lotus

Lotus 1-2-3 Millennium Edition offers powerful new ways to work with numbers combined with ease of use. 1-2-3 has thousands of features built-in to put your work into high gear. Integrated IBM ViaVoice for 1-2-3 lets you dictate data into voice-activated SmartMaster templates. With the ease of command and control, tedious chores like expense reporting become fast and fun. Web Tables let you work with Internet data right in 1-2-3. Lotus 1-2-3 offers outstanding compatibility with Excel, Lotus Notes, and leading databases such as IBM DB2 and Oracle. It also integrates with Enterprise Resource Planning systems like SAP, PeopleSoft and JD Edwards.



FEATURES:

- Integrated IBM ViaVoice templates that allow you to speak your way through common tasks like expense reporting.
- Data validation lets you set criteria that restrict the type of data that users can enter into 1-2-3.
- Easily reads and writes Excel files. 1-2-3 has up to 65,536 rows, just like Excel, for easier file conversion.
- Open, save and update files in any Notes database and use your Notes ID, access control and security for file storage and sharing.
- Use 1-2-3 as a front-end to your PeopleSoft, SAP or JD Edwards Enterprise Resource Planning systems.
- Gather data from leading enterprise databases like IBM DB2, Oracle and Sybase.
- Pull useful data such as stock quotes or currency rates from HTML pages on the Web straight into your 1-2-3 spreadsheet. Automatically refresh the data on the schedule you choose.
- Publish 1-2-3 spreadsheets with charts and graphs to the Internet or intranets, without losing all of your formatting and graphics.
- Assign a hyperlink to a spreadhseet cell, any spreadsheet object or to buttons.
- Create spreadsheets fast. 1-2-3 automatically populates a range of cells with dates and more by recognising logical patterns.
- Request and incorporate feedback from others electronically with powerful Team Computing features built into 1-2-3.

Publisher's quoted system requirements:
Lotus 1-2-3 Millennium Edition R9.5 requires: IBM PC or compatible (486 or higher). MS Windows 95, Windows 98 or Windows NT 4.0. 8MB RAM for Windows 95 or Windows 98; 16MB RAM for Windows NT. 30MB available disk space to install the minimum features of 1-2-3, 58MB available disk space required for the default installation. VGA adaptor and monitor. CD-ROM drive (3.5" media exchange available). Mouse or other pointing device.

IBM ViaVoice for Lotus 1-2-3 requires: IBM PC or compatible (Pentium 150MHz with MMX or Pentium 166MHz without MMX). MS Windows 95, Windows 98 or Windows NT 4.0. 32MB RAM for Windows 95 or Windows 98; 48MB RAM for Windows NT. 110MB available disk space, which includes 60MB for program files and 50MB for enrollment files. VGA adaptor and monitor. CD-ROM drive. Sound card (Creative Labs Sound Blaster 16 or 100% compatible or MWave). Noise-cancelling microphone.

Customers requiring licensing for 25+ users require Lotus Passport Advantage.
Please see pages 797, 798 for details.

CHECK MEDIA BEFORE YOU BUY

www.action.com/lotus

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Lotus 1-2-3 Millennium Edition	WIN 95/98/NT	49-32-03	92.89	94.49	94.29	93.99

OTHER ITEMS

FOR LOTUS LICENSING SEE PAGES 797, 798

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS 3.x, WINDOWS 95, WINDOWS 98, WINDOWS NT

DATABASES

Microsoft



£76.95
ONLINE
52-30-90

Microsoft Access 2000 makes it easy to get the information you need and provides powerful tools that help you organise and share your database so you and your team make better decisions. Quickly find answers that count, share information over intranets, and build faster and more effective business solutions.

FEATURES:

- Update sales figures from the road or quickly check on customer details.
- Customise your views and formats to show precisely the information you need.
- Use built-in Microsoft SQL Server™ integration to create a scalable database that can grow with your business.
- Seamless integration between your data source and interactive web pages makes building and sharing a Microsoft Access database easier than ever.
- Use Web technology to get information fast and tailor it to your specific purpose.
- Add Office 2000 Web Components to visually analyse data in your Web browser.
- Interactive Data Access Pages are Access forms and reports designed for the Web, that enable any employee to easily open, view, and update live data within the browser.
- Illustrate a Data Access Page with an interactive chart, then post it or attach it to e-mail so that co-workers always have the latest information, in the office or on the road.
- Link multiple tables into a single, interrelated view, called a Grouped Data Access Page, so that you can create a hierarchy that groups records from general categories to specific details.
- Easily add to a Data Access page by dragging from the field list. The form fields are directly bound to the database, so the information is always up-to-date.
- Improved database windows includes new tabs for Data Access Pages, views, stored procedures and database diagrams, and includes a user interface designed like the Outlook bar.

Customers now only require 5 licenses to participate in Microsoft's new open 5.0 licensing programme call 08701 633 300 for more details.

Publisher's quoted system requirements:
Pentium PC with 75MHz or higher processor, Windows® 95, Windows 98 or Windows NT® Workstation 4.0 with Service Pack 3 or later. 24MB RAM for Windows 95/98, 40MB RAM for Windows NT. 161MB available hard disk space for typical installation, but will vary depending on configuration. CD-ROM drive. VGA or higher resolution monitor, Super VGA recommended. Mouse, IntelliMouse® or compatible pointing device.

Microsoft Certified Solution Provider Partner

CHECK MEDIA BEFORE YOU BUY

www.action.com/microsoft

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Microsoft Access 2000	WIN 95/98/NT	52-17-68	232.39	◗	233.95	233.95
Microsoft Access 2000 **Comp/Version U/G**	WIN 95/98/NT	52-30-90	76.95	78.95	78.79	78.45
Microsoft Press Running Access 2000	Manual/CD	49-95-33	27.95	29.29	29.05	28.89

OTHER ITEMS

FOR MEMORY UPGRADES SEE PAGES 190–205
FOR MICROSOFT LICENSING SEE PAGES 792–795

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

DATABASES

FileMaker COREL



£112.49
ONLINE
49-32-89



£62.49
ONLINE
49-49-87

FileMaker Pro 5 is the quickest, easiest way to get an organisation organised. Easily create, share and manage information and projects with colleagues across the hall or over the Intranet. Take advantage of ground breaking Instant Web Publishing capabilities that render database layouts on your Intranet with just one click – it's that easy. It's the ideal database to use with Microsoft Office for Windows and Macintosh.

FEATURES:

- Easily integrate with Microsoft Office.
- Publish your databases on your intranet.
- Be productive in minutes – without learning programming.
- Powerful data management.
- Share information easily and securely.

Publisher's quoted system requirements:
Intel compatible computer 486/33 or later. Windows 95, Windows 98 or Windows NT 4.0 (Service Pack 3). 16MB RAM required. CD-ROM drive. Microsoft TCP/IP or Macintosh IPX/SPX network. A host computer is required with continuous access to the Internet or intranet via TCP/IP. Access to web-published databases is limited to 10IP addresses per 12 hour period.

Interpret, present and share information with an easy-to-use relational database designed for new users, experts and developers. **Corel Paradox 9** lets you see the meaning behind data, helping you make better decisions. Compatible and Web-ready, Paradox 9 makes it easy to exchange data across applications, including Microsoft® Word and Microsoft Excel, or publish it straight to the Internet.

FEATURES:

- Ready-to-use templates let users organise business, corporate and/or personal information.
- Backward compatibility means users can easily open their existing Paradox files.
- New and improved Internet features let users publish, retrieve and manage data on the Web.
- Enhanced dialog boxes, including the Table Structure dialog, make the table design easier than ever.

Publisher's quoted system requirements:
Windows 95, 98 or NT® 4.0. 486/66 DX. 16MB RAM (32MB RAM recommended). 65MB hard disk space. CD-ROM drive. VGA monitor or better.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
FileMaker Pro 5.0	WIN 95/98/NT	49-32-95	207.99	◗	209.95	209.75
FileMaker Pro 5.0 **Upgrade**	WIN 95/98/NT	49-32-89	112.49	◗	114.95	114.49
FileMaker Pro 5.0 **10 user**	WIN 95/98/NT	49-55-24	1494.49	◗	◗	1497.95
Corel Paradox 9	WIN 95/98/NT	49-23-10	97.39	99.85	99.49	98.95
Corel Paradox 9 **Version Upgrade**	WIN 95/98/NT	49-49-87	62.49	64.85	64.49	63.95

OTHER ITEMS FOR ACCOUNTING SOFTWARE SEE PAGES 889–891

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

DATABASES AND DEVELOPMENT TOOLS

Microsoft



Microsoft Visual InterDev™ Pro 6.0 is a powerful development environment for rapidly creating data-driven Web applications. Integrated visual design tools, debugging support*, and database features enable you to build interactive, cross-platform Web applications quickly and easily.

Publisher's quoted system requirements:
Pentium or higher PC. Windows 95/98 or Windows NT 4.0. 24MB RAM for Windows 95 or later (32MB recommended); 32MB for Windows NT 4.0 (48MB recommended); installation 60MB–75MB. CD-ROM drive. VGA or higher resolution monitor (Super VGA recommended).



Developing database applications is easier than ever with **Microsoft Visual FoxPro 6.01**. It provides the tools you need to develop fast, state-of-the-art client/server and Internet solutions.

Publisher's quoted system requirements:
486DX/66 Pentium or higher PC. Windows 95/98 or Windows NT 4.0. 16MB RAM for Windows 95 or later (32MB recommended). Windows NT 4.0 24MB RAM (32MB recommended). Installation 85MB–90MB; CD-ROM drive. VGA or higher-resolution monitor (super VGA recommended). Mouse or other pointing device.







Microsoft Visual J++ 6.0 lets you harness the productivity of the Java language and the power of Windows to build and deploy high-performance client/server solutions for Windows and the Web. Visually design, debug and deploy feature-rich applications from within the high-productivity rapid application development (RAD) environment.

Publisher's quoted system requirements:
Pentium 90MHz or higher processor. Windows 95/98 or Windows NT 4.0 (with service Pack 3). 24MB RAM (48MB recommended). Microsoft Internet Explorer 4.01 Service Pack 1 or greater. CD-ROM.

CHECK MEDIA BEFORE YOU BUY

www.action.com/microsoft

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Visual InterDev Pro 6.0	WIN 95/98/NT	43-71-23	337.75	➧	339.95	339.10
Visual InterDev Pro 6.0 **Upgrade**	WIN 95/98/NT	43-71-30	168.85	➧	169.95	169.53
Visual FoxPro 6.0	WIN 95/98/NT	43-71-09	328.80	➧	329.95	329.62
Visual FoxPro 6.0 **Ver./Comp. Upgrade**	WIN 95/98/NT	43-71-16	167.85	➧	168.95	168.59
Visual J++ Professional 6.0	WIN 95/98/NT	43-71-47	335.49	➧	337.95	337.59
Visual J++ Prof. 6.0 **Comp./Ver. Upgrade**	WIN 95/98/NT	43-71-78	135.10	➧	136.95	136.75
Visual J++ Standard 6.0	WIN 95/98/NT	43-71-92	62.65	63.95	63.79	63.55
Visual J++ Standard 6.0 **Comp./Ver. U/G**	WIN 95/98/NT	43-72-02	34.17	34.95	34.74	34.53

OTHER ITEMS

FOR MICROSOFT LICENSING SEE PAGES 792–795

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

DEVELOPMENT TOOLS

Microsoft

Microsoft® Visual Basic® 6.0 is the most productive tool for creating high-performance Enterprise applications, which includes native code compilation, integrated data environment, and RAD Internet programming features.

Visual Basic Learning Edition

- With the easy-to-use Visual Basic development environment and a CD-ROM multimedia tutorial that teaches you key concepts at your own pace, the Visual Basic Learning Edition is the quick and easy way to learn programming (included in Learning Edition only).

Visual Basic Professional Edition

- Web classes build server-side Internet applications and components that are easily accessible from any browser on any platform.
- With the HTML Page Designer you can write Dynamic HTML-based applications that fully exploit Microsoft Internet Explorer 4.0.
- With the Professional Visual Database Tools you can view tables, modify data, and create SQL queries within the development environment for any ODBC – or OLE DB – compliant database.

Additional features in Visual Basic Enterprise Edition

- With Microsoft SQL Server™ 6.5 Developer Edition you can develop and test Enterprise database applications with a scalable, high-performance database management system for Windows NT based systems.
- With the Enterprise Visual Database Tools you can visually design and modify schemas and objects for Microsoft SQL Server 6.5 and Oracle 7.3.3+ databases.



Publisher's quoted system requirements:
To run Visual Basic 6.0 Enterprise Edition:
Pentium or higher processor; Windows 95/98 or Windows NT 4.0; 24MB RAM for Windows 95/98 or NT 4.0 (32MB recommended); installation 116MB–135MB hard disk space; CD-ROM drive; VXGA or higher resolution monitor (Super VGA recommended); Mouse or pointing device.

Customers now only require 5 licenses to participate in Microsoft's new open 5.0 licensing programme call 08701 633 300 for more details.





CHECK MEDIA BEFORE YOU BUY

www.action.com/microsoft

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Visual Basic Enterprise 6.0	WIN 95/98/NT	43-68-94	780.49	➧	782.95	782.55
Visual Basic Enterprise 6.0 **Version Upgrade**	WIN 95/98/NT	43-69-04	466.95	➧	468.95	468.65
Visual Basic Professional 6.0	WIN 95/98/NT	43-69-11	326.75	➧	328.95	328.49
Visual Basic Professional 6.0 **Competitive Version Upgrade**	WIN 95/98/NT	43-69-28	164.89	➧	166.95	166.69
Visual Basic Standard 6.0	WIN 95/98/NT	43-69-35	60.19	61.95	61.79	61.55
Visual Basic Standard 6.0 **Version Upgrade**	WIN 95/98/NT	43-70-37	33.39	34.95	34.88	34.72

OTHER ITEMS FOR MICROSOFT LICENSING SEE PAGES 792–795

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

DEVELOPMENT TOOLS

Microsoft



Microsoft Visual C++® 6.0
The most productive way to build the fastest applications for Windows and the Web.
Tap into the power and productivity of Microsoft® Visual C++ 6.0. Take advantage of robust component development, powerful database tools, and full Internet support to build strategic business solutions.

Visual C++ Learning Edition
- Master Visual C++ programming tasks quickly using the printed step-by-step tutorials and online C++ instruction.

Visual C++ Professional Edition
- Improve turnaround with Edit and Continue – make changes during your debugging session and continue on without rebuilding.
- Speed development time and write less code with on-the-fly syntax and programming assistance within the editor with IntelliSense® Technology.
- Take advantage of the industry-leading performance of the number one optimising compiler for the smallest, fastest executables now with faster throughput.
- Integrate the Web into MFC applications, including Common Controls from Microsoft Internet Explorer 4.0. Use Dynamic HTML to add richness, manipulate data, and reduce server round trips.

Additional features in Visual C++ Enterprise Edition
- Build the smallest, most scalable ActiveX® Controls for Microsoft Internet Information Server.
- View tables, modify data, and create SQL queries within the IDE for any ODBC – or OLE DB compliant database. Visually design and modify schemas and objects for Microsoft SQL Server™ 6.5 and Oracle 7.3.3+ databases.

Customers now only require 5 licenses to participate in Microsoft's new open 5.0 licensing programme call 08701 633 300 for more details.

Microsoft Certified Solution Provider Partner





Publisher's quoted system requirements:
To run Visual C++ 6.0 Enterprise Edition:
Pentium or higher processor; Windows 95/98 or NT; 24MB RAM for Windows 95/98 or NT 4.0 (32MB recommended); installation 305MB–405MB hard disk space; CD-ROM drive; VGA or higher resolution monitor (Super VGA recommended). Mouse or other pointing device.

CHECK MEDIA BEFORE YOU BUY

www.action.com/microsoft

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Visual C++ Enterprise 6.0	WIN 95/98/NT	43-70-44	790.18	➧	792.95	792.16
Visual C++ Enterprise 6.0 **Version Upgrade**	WIN 95/98/NT	43-70-51	465.32	➧	466.95	466.48
Visual C++ Pro 6.0	WIN 95/98/NT	43-70-68	335.49	➧	337.95	337.59
Visual C++ Pro 6.0 **Comp/Ver. Upgrade**	WIN 95/98/NT	43-70-75	164.62	➧	165.95	165.79
Visual C++ Learning 6.0	WIN 95/98/NT	43-70-82	60.25	61.95	61.95	61.75
Visual C++ Learning 6.0 **Version Upgrade**	WIN 95/98/NT	43-70-99	33.95	34.95	34.80	34.69

OTHER ITEMS

FOR MICROSOFT LICENSING SEE PAGES 792–795

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

DEVELOPMENT TOOLS

Microsoft

Microsoft Visual Studio 6.0 provides you with all the tools to build and manage distributed solutions. Take advantage of RAD features to increase your productivity, integrate data seamlessly into your applications, and organise team-based development projects.

Visual Studio Professional Edition

- Includes the complete suite of Microsoft visual tools: Microsoft Visual Basic® 6.0, Visual C++® 6.0, Visual FoxPro® 6.0, Visual InterDev™ 6.0, Visual J++™ 6.0 and MSDN™ Library Special Edition.
- Develop with HTML, Script and Dynamic HTML to reach any desktop platform, including WIN 16, WIN 32®, Macintosh and UNIX.
- View tables, modify data and create SQL queries within the development environment for any ODBC or OLE DB compliant database.

Additional in Visual Studio™ Enterprise Edition

- Contains a develop-and-test license for the complete, integrated suite of Microsoft BackOffice® Server 4.5 Developer Edition, including Microsoft SQL Server™ 7.0, Windows NT® Server 4.0, Systems Management Server 2.0, Transaction Server, Microsoft Exchange Server 5.5, SNA Server 4.0, Internet Information Server 4.0 and more.
- Visually design databases and views; create and test stored procedures for Microsoft SQL Server 6.5 and later and Oracle 7.0 and later databases.
- Take advantage of great team support with Microsoft Visual SourceSafe™ 6.0 version control system, Visual Modeler, Visual Component Manager and the Microsoft Repository.
- Use Visual Modeler 2.0 for designing distributed applications, and Visual Studio™ Analyser for performance analysis of distributed applications.

Customers now only require 5 licenses to participate in Microsoft's new open 5.0 licensing programme call 08701 633 300 for more details.

£645.29
ONLINE
43-72-33



Publisher's quoted system requirements:
To run Visual Studio Enterprise Edition
Pentium or higher PC; 32MB for Windows 95/98 or Windows NT 4.0 (48MB recommended).
Hard Disk space required: Visual Basic 116MB–135MB; Visual C++ 302MB–403MB; Visual FoxPro 85MB to 90MB max.; Visual InterDev 81MB–98MB. CD-ROM drive; VGA or higher resolution monitor; mouse or pointing device.

EXTRA USER LICENCES:
Extra users are added using a Microsoft License Pak (MLP), which contains a licence to copy and order form for documents. Documents available from Microsoft at a charge.
No disks are included.

Now contains Windows 2000 Developer's Readiness Kit
www.action.com/developer

Are you ready to start developing...
for Microsoft Windows 2000
www.action.com/developer

CHECK MEDIA BEFORE YOU BUY

www.action.com/microsoft

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Visual Studio Enterprise 6.0	WIN 95/98/NT	43-72-26	948.05	➧	949.95	949.49
Visual Studio Enterprise 6.0 **Ver U/G**	WIN 95/98/NT	43-72-33	645.29	➧	649.95	648.79
Visual Studio Professional 6.0	WIN 95/98/NT	43-72-40	656.99	➧	659.95	659.29
Visual Studio Professional 6.0 **MLP**	WIN 95/98/NT	12-10-19	659.95	➧	663.49	662.79
Visual Studio Professional 6.0 **Comp/Ver.**	WIN 95/98/NT	43-72-57	330.49	➧	332.95	332.10

OTHER ITEMS

FOR MICROSOFT LICENSING SEE PAGES 792–795

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS, WINDOWS 95, WINDOWS 98, WINDOWS NT

TRAINING & DEVELOPMENT

Microsoft

Microsoft Developer Network Subscriptions provide developers with easy access to the latest Microsoft tools, technology, and information to create solutions for Windows and the Web. With the flexibility of three subscriptions levels and the convenience of timely updates delivered throughout the year, an MSDN subscription is the essential companion for every professional developer.

£1194.29 ONLINE 43-63-20







See www.action.com/developer/msdn for latest offers

£173.29 ONLINE 41-53-41



Microsoft Visual SourceSafe 6.0 provides easy-to-use, secure, project-oriented version control. Now any size team can increase productivity and easily protect documents, source code, and content for the Web or PC.

£63.51 ONLINE 52-99-31



Microsoft Mastering Series are multimedia CD-ROM courses that deliver 40 plus hours of technical training for real world development challenges.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
MSDN Library V6.0	WIN 95/98/NT	38-93-12	113.07	◗	114.95	114.26
MSDN Professional V6.0	WIN 95/98/NT	43-67-91	412.49	◗	414.95	414.49
MSDN Professional V6.0 Renew	WIN 95/98/NT	53-00-38	299.55	◗	301.95	301.49
MSDN Universal V6.0	WIN 95/98/NT	43-94-13	1415.95	◗	◗	1419.95
MSDN Universal V6.0 **Version Upgrade/renew**	WIN 95/98/NT	43-63-20	1194.29	◗	◗	1199.95
MS Visual SourceSafe V6.0	WIN 95/98/NT	39-21-89	345.10	◗	349.00	347.95
MS Visual SourceSafe V6.0 **Competitive/Version Upgrade**	WIN 95/98/NT	41-53-41	173.29	◗	177.95	176.95
MS Mastering Visual Studio Ent. 6.0 (Distributed Application Design)	WIN 95/98/NT	42-04-22	62.59	64.99	64.34	63.70
MS Mastering Visual Basic V6.0 Development	WIN	43-97-50	62.59	64.99	64.34	63.70
MS Mastering Ent. 6.0 Development with Visual Basic	WIN 95/98/NT	52-99-31	63.51	64.95	64.56	64.17
MS Mastering Web Development V6.0 with Visual Inter Development	Win 95/98/NT	52-98-00	76.42	79.95	79.15	78.36

OTHER ITEMS

FOR MICROSOFT LICENSING SEE PAGES 793–795
FOR MICROSOFT OFFICE SEE PAGES 820–823

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

DEVELOPMENT TOOLS

Borland®
www.inprise.co.uk



Borland C++ Builder 5.0 Professional combines the most powerful C++ Windows development environment for building desktop and database applications. With over 150 re-usable components, CodeGuard™, the XML based project manager and ASI/ISO C++ compliant high-speed 32-bit optimising compiler.

£231.95
ONLINE
49-71-37

FEATURES:

- 20 ready-to-use industry-standard components to build Internet functions into C++.
- The Resource DLL Wizard simplifies the building of applications for multiple locales, with support for MultiByte Characters, Bi-Directional support plus the Resource String Table editor which will quickly localise your applications for new languages.
- Fix memory bugs with run-time error-detection technology for easily locating and diagnosing memory and resource leaks instantly.
- CodeInsight technologies including too/Tip Expression Evaluation, Code Find and Code Templates, will reduce syntax errors and C++ coding.

Publisher's quoted system requirements:
Intel Pentium 90 or higher (P166 recommended). Microsoft Windows 2000, Windows 95, 98 or NT 4.0 with Service Pack 3 or later. 32MB RAM (64MB recommended). Hard Disk Space: 240MB for compact install. 360MB for full install. CD-ROM Drive. VGA or higher resolution Monitor. Mouse or other pointing device.



JBuilder 3.5 Professional is the most comprehensive set of award-winning, visual development tools for creating Pure Java, platform-independent business applications, applets, servlets and JavaBeans for the Java 2 platform. JBuilder 3.5 combines the ease of visual drag-and-drop Java 2 JFC/Swing/dbSwing development, the productivity of 250+ reusable JavaBeans with source, scalable database tools with complete JDBC connectivity.

£444.95
ONLINE
49-98-65

FEATURES:

- Included Open Tools API for integrating custom tools into the JBuilder environment.
- Full support for Layout Managers, Swing components, Swing Borders.
- Syntax highlighting for multiple file types, including Java, XML, HTML and C/C++, IDL, JSP, SQL.
- Build robust pure Java 2 applications with support for the latest Java standards, including Java 2, Java 2 Swing/JFC, Java 2D, Java Collections, Accessibility APIs and more.
- Now available for Linux and Solaris.

Publisher's quoted system requirements:
Intel Pentium II®/233MHz or Compatible, Microsoft Windows® 98 or NT 4.0 (or higher), RedHat Linux 6.0 or 6.1 (recommended configuration), ULTRASparc™ 2 Solaris 2.6 or Solaris 7 (2.7), 128MB RAM recommended minimum, 150MB Hard Disk space, CD-ROM Drive, SVGA or higher resolution (800 × 600 256 Colour), Mouse or pointing device.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Delphi 5 Standard	WIN 95/98/NT	49-32-34	67.35	67.95	67.85	67.75	
Delphi 5 Professional	WIN 95/98/NT	49-54-82	476.95	↑	479.95	479.49	
Delphi 5 Professional **Upgrade**	WIN 95/98/NT	49-95-61	242.49	↑	244.95	244.49	
Delphi 5 Enterprise	WIN 95/98/NT	49-70-92	1665.95	↑	↑	1669.95	
Delphi 5 Enterprise **Upgrade**	WIN 95/98/NT	49-23-27	1174.95	↑	↑	1178.95	
JBuilder 3.5 Professional	WIN/LINUX/SOLARIS	49-98-65	444.95	↑	449.95	448.95	NEW
JBuilder 3.5 Enterprise	WIN/LINUX/SOLARIS	49-55-90	1644.95	↑	↑	1648.95	NEW
C++ Builder 5.0 Standard	WIN 95/98/NT	49-96-23	62.25	64.85	64.75	64.49	
C++ Builder 5.0 Professional	WIN 95/98/NT	49-19-59	476.49	↑	478.95	478.49	
C++ Builder 5.0 Professional **Upgrade**	WIN 95/98/NT	49-71-37	231.95	↑	234.95	233.95	

OTHER ITEMS

FOR DEVELOPMENT TOOLS SEE PAGES 830–835
FOR DATABASES SEE PAGES 828–857
FOR BORLAND LICENSING SEE PAGE 807

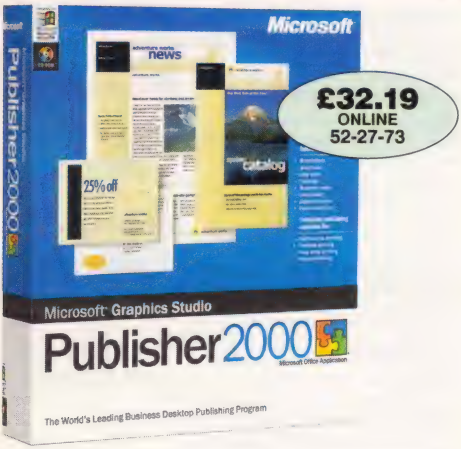
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

DESKTOP PUBLISHING

Microsoft



Publisher 2000 is a business desktop publishing program that enables users to easily create professional-looking marketing materials. The release of Publisher 2000 offers more design options with over 2000 professionally designed publications. A flexible wizard model allows users to work the way they want and automated design expertise helps them achieve professional results without design expertise. Stronger Office integration and a complete print-to-web publishing solution enable users to deliver professional-looking results.

FEATURES:

- 20 sets of professionally designed looks that can be applied across all your publication needs from letterhead and a brochure to a Web site.
- Pack and Go Walks you through packing all the elements needed to print your publication, such as fonts and images, across multiple disks or to a specified folder location for easy travel to your local copy shop or commercial printer.
- Full support for commercial printing including automatic 4-colour process colour separations, spot colours and the Pantone® Matching System allow users the flexibility to print the way they need.
- Smartly re-colours clip art and graphics to another colour or another colour plus black to allow you to create a unique look for your graphics, or convert them to 1 and 2 colours, for economical printing with spot colours.
- File Open/Save dialog Shares the same file open and save dialog with Office 2000 which allows you to view 50% more files with less visual clutter and provides links to the last 20–50 documents you've worked on – regardless of which application they were created in.
- AutoConvert converts an existing newsletter or brochure to a complete, multi-page Web site with a click of a button.
- Save to the Web allows a user to save any publication to HTML for posting to the World Wide Web or to post directly to a Web server. (Converts images to JPEG and clipart to GIF's).
- Includes over 1000 specifically designed pieces of Web Art, from banners and buttons to animated GIF's, to add pizzazz to your Web site.
- Includes over 16,000 pieces of clipart, 1700 photographs, 200 fonts, 400 Design Gallery Elements, 90 sounds and 600 animated GIF's.

Publisher's quoted system requirements:
P90 or higher processor. Windows 95, Windows 98 or Windows NT Workstation version 4.0 16MB of RAM for running with Windows 95 or Windows 98. 32MB of RAM for running with Windows NT Workstation 4.0. 127MB available hard-disk space for typical installation. CD-ROM Drive. VGA, Super VGA Display.

Customers now only require 5 licenses to participate in Microsoft's new open 5.0 licensing programme call 08701 633 300 for more details.

Microsoft Certified Solution Provider Partner

CHECK MEDIA BEFORE YOU BUY

www.action.com/microsoft

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Publisher 2000	WIN 95/98/NT	52-08-38	68.19	68.95	68.89	68.75
Publisher 2000 **Comp/Version Upgrade**	WIN 95/98/NT	52-27-73	32.19	32.99	32.85	32.74
Home Publisher 2000	WIN 95/98/NT	12-11-04	24.79	25.95	25.80	25.69
Home Publisher Suite 2000	WIN 95/98/NT	38-29-92	43.29	44.95	44.50	44.06
MS Quick Course Publisher 2000	MANUAL	53-00-66	9.89	10.89	10.75	10.65

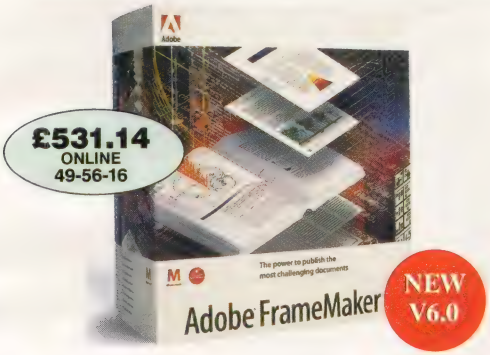
OTHER ITEMS

FOR MICROSOFT LICENSING SEE PAGES 792–795
FOR MEMORY UPGRADES SEE PAGE 190
FOR PRINTERS INDEX SEE PAGE 371

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT, MAC, POWERMAC

IMAGE EDITING/PUBLISHING



Adobe FrameMaker 6.0 software delivers a comprehensive solution for publishing long, content-rich documents across multiple channels. Whether publishing to the Web, CD-ROM, or print, FrameMaker 6.0 lets you work more productively than ever before. The program offers improved book-building features including book-wide commands, and now gives you the power of Quadralay WebWork® Publisher Standard Edition software for enhanced HTML and XML capabilities. This version also supports creation of structured PDF files.

Publisher's quoted system requirements:
Pentium or greater processor. 32MB RAM. 90–145MB hard disk space. Windows 95/98/2000 or Windows NT 4.0. VGA monitor. CD-ROM drive. Adobe PostScript or PCL Printer. Adobe Type Manager and TrueType supported.



Adobe Premiere 5.1 spans the worlds of broadcast and online media to help you develop short and long format movies for video, film, multimedia, and the Web. With this cross-platform video editing tool, you can produce professional-quality movies with complete efficiency, control, and flexibility.

Publisher's quoted system requirements:
Pentium processor, Windows 95, NT 4.0 or later operating system. 32MB RAM. 60MB of free hard disk space for installation. 256 colour video display adaptor. CD-ROM drive.

Customers requiring licensing for 10+ users require Adobe Open Options Volume Programme **Please see page 806 for details.**

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Adobe Streamline 4.0	WIN 95/98/NT	49-34-28	86.49	87.95	87.75	87.49	
Adobe Streamline 4.0 **U/G**	WIN 95/98/NT	49-34-35	48.49	49.85	49.75	49.49	
Adobe After Effects 4.1	MAC/POWERMAC	49-56-07	387.42	◗	389.95	388.98	NEW
Adobe After Effects 4.1 **Pro**	WIN 95/98/NT	49-55-25	986.49	◗	999.95	989.95	
Type Manager 4.1	WIN 95/98	37-17-17	41.36	42.95	42.52	42.10	NEW
Adobe Premiere 5.1	WIN 95/98/NT	49-34-04	367.95	◗	369.95	369.49	
Adobe Premiere 5.1 **U/G**	WIN 95/98/NT	49-34-11	123.49	◗	124.95	124.69	
Adobe FrameMaker 6.0	WIN 95/98/2K/NT	49-56-16	531.14	◗	539.95	536.71	NEW
Adobe FrameMaker 6.0	MAC	49-28-29	531.14	◗	539.95	536.71	NEW
Adobe PageMill 3.0	WIN 95/98/NT	43-49-13	65.95	67.85	67.55	67.25	
Adobe PageMill 3.0 **Upgrade**	WIN 95/98/NT	49-34-42	37.95	39.85	39.75	39.59	

OTHER ITEMS

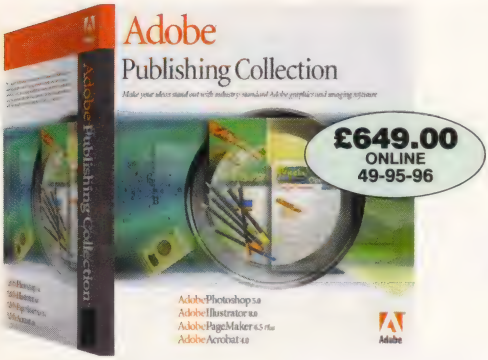
FOR DTP SEE PAGES 836, 839, 842
FOR INTERNET TOOLS SEE PAGES 883
FOR TECHNICAL SERVICES SEE PAGES 23–39

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

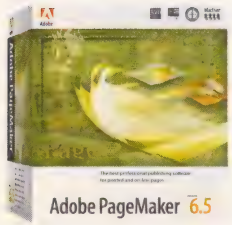
Lower prices on-line at action.com

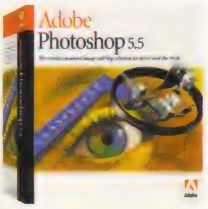
PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

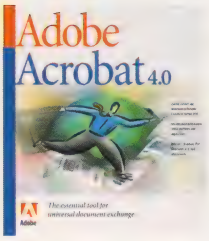
DESKTOP PUBLISHING

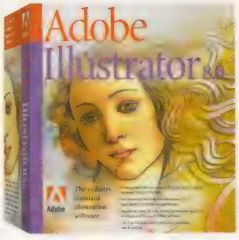


The **Adobe® Publishing Collection 7.0** brings together four award-winning tools for creative business professionals: Adobe PageMaker® 6.5 Plus, Adobe Photoshop® 5.5, Adobe Illustrator® 8.0, and Adobe Acrobat® 4.0. Together, these powerful, tightly integrated applications, along with the included templates and graphics, will help you create, assemble, and deliver graphically rich, professional-looking communications for print and the Web. Plus, the collection offers substantial savings over the cost of buying the programs separately.









- **Adobe Acrobat 4.0** – Enables users to easily convert any file from any application to Adobe's Portable Document format (PDF), a compact cross-platform electronic format that preserves layouts, fonts, colours and images.
- **Adobe Illustrator 8.0** – Offers enhanced productivity through a streamlined interface, efficient handling of large images, 200 levels of undo and reliable PostScript printing. Also provides wide-ranging flexibility, working with numerous file formats, including those for the creation of Web pages. Accurate typographical controls for even the most complex of page layouts.
- **Adobe PageMaker 6.5** – Has the ability to publish virtually any document, from brochures to advertisements. Features professional word-processing and typographical controls, including spell-checking, automatic table of contents and tracking and kerning.
- **Adobe Photoshop 5.5** – Create, retouch and enhance images in many formats for virtually every medium. Has special effect filters for image sharpening, softening, stylising, distortion, natural media, lighting and more.

Publisher's quoted system requirements:
Pentium® or faster Intel® processor. Windows® 95/98 or Windows NT® 4.0 with Service Pack 3 or later. 64MB RAM to install and run any one application (96MB recommended). Additional RAM required to run multiple applications simultaneously. 340MB of available hard-disk space to install all applications (425MB recommended). Video card with 800 × 600. CD-ROM drive. Sound card (recommended). PostScript language printer (recommended). Internet connection (recommended).

Customers requiring licensing for 10+ users require Adobe Open Volume Options Programme. **Please see page 843 for details.**

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Adobe Publishing Collection 7.0	WIN 95/98/NT	49-95-96	649.00	◆	699.00	698.50

OTHER ITEMS

FOR MORE ADOBE PRODUCTS SEE PAGES 837–841
FOR ADOBE LICENSING SEE PAGE 806

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT, MAC, POWERMAC

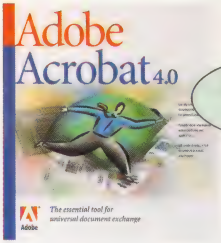
DESKTOP PUBLISHING

Adobe

£63.69 ONLINE 49-49-63



ADOBE PRODUCTS WILL NOT UPGRADE FROM LITE PRODUCTS.



£60.95 ONLINE 49-53-63

Adobe PageMaker Plus 6.5 is the publishing software for printed and on-line pages.

FEATURES:

- Now includes Adobe Photoshop LE 5.0.
- Powerful page design – lay out sophisticated pages with flexibility and control.
- Smooth integration with other Adobe software.
- Innovative on-line publishing – make your mark on the Internet with easy-to-use on-line publishing tools including an enhanced HTML Export plug-in.
- Advanced compatibility with products from other vendors – use/import/export and save.

Publisher's quoted system requirements:
486 processor and above, Windows 95/Windows NT Workstation, VGA display card, CD-ROM, 8MB RAM (Windows 95) or 16MB RAM (Windows NT Workstation), 26MB minimum hard disk space.

Customers requiring licensing for 10+ users require Adobe Open Volume Options Programme. **Please see page 806 for details.**

Adobe Acrobat 4.0 is the most reliable, efficient, and effective way to share information electronically. Acrobat lets you convert any document into an Adobe Portable Document Format (PDF) file, with its original appearance preserved, then distribute it for viewing and printing on any system.

FEATURES:

- Powerful mark-up tools make electronic review a snap.
- Apply security options and digital signatures to PDF files.
- Integrate PDF files with Web servers and e-mail.

Publisher's quoted system requirements:
486 processor (Pentium recommended). Windows 95, Windows 98, or Windows NT 4.0 with Service Pack 3 or later. 16MB of RAM for Windows 95 and Windows 98; 24MB of RAM for Windows NT (32MB recommended). 32MB of RAM for the Paper Capture plug-in (64MB recommended). 75MB of available hard-disk space. CD-ROM drive.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Adobe Illustrator V9.0	WIN 95/98/2KNT	49-09-18	265.55	➧	269.95	268.33	NEW
Adobe Illustrator V8-V9.0 **Upgrade**	WIN 95/98/2K/NT	49-37-30	93.82	95.95	95.37	94.80	NEW
Adobe Illustrator V9.0	MAC	49-39-63	265.55	➧	269.95	268.33	NEW
Adobe PageMaker Plus 6.5	WIN 95/98/NT	49-22-79	312.95	➧	324.95	323.00	
Adobe PageMaker Plus 6.5 **Upgrade**	WIN 95/98/NT	49-49-63	63.69	64.95	64.49	64.25	
Adobe PageMaker Plus 6.5	MAC/POWERMAC	49-12-64	291.78	➧	299.95	296.95	
Adobe PageMaker Plus 6.5 **Upgrade**	MAC/POWERMAC	49-08-53	66.86	69.95	69.25	68.56	
Adobe Acrobat 4.0	WIN 95/98/NT	49-17-82	144.95	➧	149.00	148.49	
Adobe Acrobat 4.0 **Upgrade**	WIN 95/98/NT	49-53-63	60.95	64.95	64.30	63.66	
Adobe Acrobat 4.0 **10 user**	WIN 95/98/NT	49-17-24	897.00	➧	899.00	899.00	
Adobe Acrobat 4.0	MAC	49-31-02	147.59	➧	149.00	148.49	
Adobe Acrobat 4.0 **Upgrade**	MAC	49-94-85	62.55	64.95	64.30	63.66	
Adobe Acrobat 4.0 **10 user**	MAC	49-70-27	874.52	➧	899.00	890.01	

OTHER ITEMS

FOR SOFTWARE PUBLISHER INDEX SEE PAGES 810–814

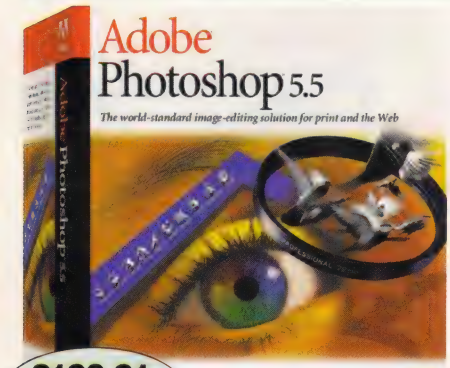
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT, MAC

IMAGE EDITING

Adobe



£122.91
ONLINE
49-95-66

Adobe

Raising photo design and production to exhilarating new heights, **Adobe® Photoshop® 5.5** expands its scope to bring you innovative artistic tools, Web-feature enhancements, and the power of Adobe ImageReady™ 2.0 for advanced processing of images for the Web. Now you can design interactive Web graphics or prepare sophisticated images for print with the same power and ease.

FEATURES:

- Photoshop shares a common user interface – and in some cases, even core technologies – with Adobe Illustrator®, Adobe InDesign™, Adobe Premiere®, Adobe After Effects®, and other Adobe products.
- Design interactive JavaScript rollover effects without writing a line of code. Just slice an image, and associate rollover behaviours with different slices.
- Includes comprehensive optimisation features for producing the highest quality Web graphics with the smallest possible file sizes.
- Produce eye-catching animated GIF files with the smallest possible file sizes. To create an animation, simply open a multilayered file from Adobe® Photoshop® or Adobe Illustrator®, and then create new frames or edit layers in Adobe ImageReady™.
- Automates the creation of contact sheets, saving you the time of creating them by hand. Turn a folder of images into contact sheets with captions. Arrange a single image multiple times, and in multiple sizes, as a picture package on a single page.
- The History palette tracks and displays a complete list of recent editing steps. You can review and move among these different stages by clicking anywhere in the list.
- Provides built-in Web optimisation features for designing eye-catching Web graphics. Its Adobe ImageReady™ 2.0 component handles image slicing, animation JavaScript rollovers, and other advanced Web tasks.

Customers requiring licensing for 10+ users require Adobe Open Volume Options Programme. **Please see page 806 for details.**

Publisher's quoted system requirements:
Pentium® or faster Intel® processor. Microsoft® Windows® 95, Windows 98, or Windows NT® 4.0 or later. 64MB of available RAM. 125MB of available hard-disk space. 256-colour (8-bit) display adaptor (24-bit colour recommended). CD-ROM drive. Sound card recommended for viewing interactive tutorial files.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Adobe Photoshop 5.5	WIN 95/98/NT	49-32-43	380.95	➧	399.00	398.60
Adobe Photoshop 5.5 – 3.0/4.0 to 5.5 **Upgrade**	WIN 95/98/NT	49-95-66	122.91	➧	124.95	124.20
Adobe Photoshop 5.5 – 5.0 to 5.5 **Upgrade**	WIN 95/98/NT	49-54-87	84.39	84.99	84.89	84.79
Adobe Photoshop 5.5	MAC	49-23-30	387.42	➧	389.95	388.98
Adobe Photoshop 3.0/4.0 to 5.5 **Upgrade**	MAC	49-13-08	122.91	➧	124.95	124.20
Adobe Photoshop 5.0 to 5.5 **Upgrade**	MAC	49-08-88	84.39	84.99	84.89	84.79

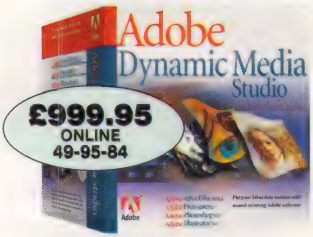
OTHER ITEMS

FOR MORE ADOBE PRODUCTS SEE PAGES 837–841
FOR ADOBE LICENSING SEE PAGE 806

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

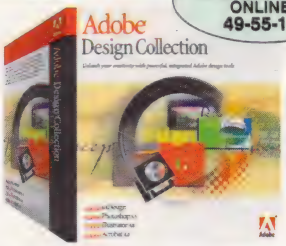
DESIGN SUITES



£999.95
ONLINE
49-95-84

The **Adobe® Dynamic Media Collection** is a power-packed software suite for producing professional-quality video, film, multimedia, and Web projects.

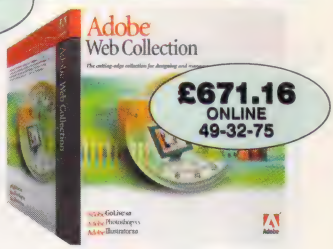
Publisher's quoted system requirements:
Pentium® or faster processor Microsoft® Windows® 98 or NT® 4.0 with Service Pack 3 or later. 64MB RAM (96MB recommended). 315MB of hard-disk space to install all applications (360MB recommended). 16-bit colour display adapter (24-bit recommended). Microsoft Video for Windows or QuickTime for Windows compatible video-capture card (recommended)*. Sound card.



£880.95
ONLINE
49-55-10

The **Adobe® Design Collection** contains four leading-edge design and publishing applications in one fully integrated suite.

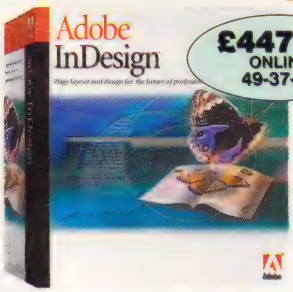
Publisher's quoted system requirements:
Pentium® II or faster processor Microsoft® NT® 4.0 with Service Pack 4, Windows 98 or later. 64MB RAM (96MB recommended). Additional RAM required to run multiple applications simultaneously. 380MB hard-disk space to install all applications (425MB recommended). Video card with 800 × 600 resolution and 8-bit/256 colours (24-bit, high-resolution display recommended). For PostScritp® printers, Adobe PostScript Level 2 or higher is required.



£671.16
ONLINE
49-32-75

The **Adobe® Web Collection** is a comprehensive, tightly integrated software suite that gives you the power to design extraordinary still and interactive Web graphics.

Publisher's quoted system requirements:
Pentium® 200MHz or faster compatible processor. Microsoft® Windows® 98 or NT 4.0 with Service Pack 3 or later. 64MB RAM to install and run any one application (96MB recommended). 256MB of available hard-disk space to install all applications (310MB recommended). Video card with 800 × 600 resolution and 8-bit/256 colours (24-bit, high-resolution display recommended). Sound card (recommended for viewing interactive tutorial files).



£447.03
ONLINE
49-37-28

Adobe® InDesign™ speaks the language of professional designers, delivering unparalleled creative freedom, productivity, and precision for designing superb pages.

Publisher's quoted system requirements:
Intel® Pentium® II or faster processor. Windows NT® 4.0 Workstation with Service Pack 4, Windows 98/2000. 48MB RAM. 75MB of available hard disk space. CD-ROM drive. Video card that supports 256-colour at 800x600 monitor resolution. For PostScript printers: Adobe PostScript Level 2 or later required.

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Adobe Web Collection	WIN 95/98/NT	49-32-75	671.16	◗	689.95	683.05	
Adobe Design Collection	WIN 95/98/NT	49-55-10	880.95	◗	899.00	897.95	
Adobe Dynamic Media Collection	WIN 95/98/NT	49-95-84	999.95	◗	◗	1049.95	
Adobe InDesign 1.5	WIN 95/98/NT	49-37-28	447.03	◗	449.95	448.83	NEW

OTHER ITEMS

FOR ADOBE LICENSING SEE PAGES 806
FOR ADOBE PRODUCTS SEE PAGES 837–841

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

NEW *item on this page*

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT, MAC

DESKTOP PUBLISHING

Quark



A powerful yet easy-to-use program, **QuarkXPress 4.1** is used by the world's leading designers and publishers to produce everything from newsletters, ads and brochures to product packaging, catalogues, magazines, and newspapers. QuarkXPress is an integrated publishing package that combines expert type, layout, colour, and graphics-handling features with professional illustration tools, word processing, and sophisticated pre-press functions – all in one application. Precise typography and layout tools give you an unparalleled design control and command over every aspect of your document, from conception to layout.

FEATURES:

- PDF Filter 1.4: Save pages from your QuarkXPress document as a PDF file, or import a page from a PDF file into a picture box (Adobe® Acrobat® Distiller® 3.0 is required to create the PDF).
- Quark HTML Text Import: Import HTML text into QuarkXPress text boxes, just like with other text formats.
- Quark HTML Text Export: Export text from your QuarkXPress documents as HTML formatted text.
- Scissors: Use the new scissors tool to 'Cut' text boxes, pictures boxes, lines and text paths.
- Guide Manager: Takes greater control over your layout with simplified, precise creation of guides.
- MS Word 6-8 Filter: Import or save text in Microsoft Word format.
- Composite RGB: Print composite RGB to colour PostScript printers.
- QuarkLink™ Communicate with Quark over the internet to receive information about the publishing industry and software updates or conflicts, as well as customer service and technical support.

Buying extra software with your new PC?

For just £20, Action can save you time by:

- ✓ installing the software you buy
- ✓ applying standard configuration
- ✓ running a diagnostic check

before your machine is delivered to you

Publisher's quoted system requirements:
Microsoft Windows 95, 98, Windows NT 4.0 or NT 3.51. 486 or faster processor. 12MB RAM (additional memory recommended for graphic-intensive documents). 12MB free hard disk space. VGA or higher resolution display adapter and monitor. CD-ROM drive.

Publisher's MAC OS quoted system requirements:
68K - based system: Mac OS 7.1. PowerPC-based system: Mac OS 7.1.2. Laser Writer driver 7.0 5MB RAM for 68K – based systems, 8MB or more recommended for graphic intensive documents; 8MB for PowerPC based systems (with virtual memory turned off), 10MB or more recommended for graphic intensive documents. 13MB Free hard disk space for 68K Mac OS-compatible computer or 14MB free disk space for Power PC Mac OS – compatible computer. CD-ROM drive.

CHECK MEDIA BEFORE YOU BUY

	DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	QuarkXPress V4.1	WIN 95/98/NT	38-30-87	789.79	➧	794.95	792.96
NEW	QuarkXPress V4.1	MAC	38-53-45	789.79	➧	794.95	792.96

OTHER ITEMS

FOR MICROSOFT WINDOWS 2000 SEE PAGES 899–901
FOR MICROSOFT WINDOWS 98 SEE PAGE 898

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

GRAPHICS & IMAGE EDITING

COREL

CorelDRAW® 9 is the latest in a long line of award-winning graphics software for professional designers, and includes the image-editing software Corel PHOTO-PAINT® 9. CorelDRAW 9 is a vector illustration and page layout program, offering exceptional creation tools and outstanding output capabilities that integrate into existing workflows. With a full combination of design tools and productivity features, CorelDRAW 9 delivers incredible flexibility. In one comprehensive application, Corel PHOTO-PAINT 9 effectively combines exceptional image composition, masking and image enhancement features with natural media brush tools. With its professional image-editing and painting capabilities, Corel PHOTO-PAINT 9 is ideal for editing and creating images for print or the Web.

£154.95
ONLINE
49-31-13



FEATURES:

- 2,000 TrueType and Type 1 fonts; 2,500 high-resolution photos; 25,000 professional clipart images and symbols, including 10,000 new to CorelDRAW 9.
- Publish to PDF option, including advanced text and font handling, downsampling and compression options, job ticketing capabilities, bookmark and hyperlink options, and colour management options.
- Scripting capabilities, including task-based commands in CorelDRAW 9 and Corel PHOTO-PAINT 9, and Microsoft Visual Basic for Applications, which allows developers to easily create customised CorelDRAW-based solutions.
- More than 70 import filters and 40 export filters, encompassing virtually all standard graphics, image and text file formats.
- Uses the ixla™ digital camera interface to ensure easy download of images from approximately 120 different cameras.
- Web functionality includes wizard-driven HTML export using Cascading Style Sheets™ as a layout, image maps and links.
- Innovative interactive creation tools such as Drop Shadow, Contour, Mesh Fill and more.
- Over 70 bitmap effects for easy image manipulation, as well as support for the Adobe plug-in filter standard.
- Easily create multi-page documents with columns, headers/footers kerning control, text wrapping and more and assign different page size and orientation to individual pages.
- Support for all standard Web graphics file formats, including GIF89a, animated GIF, JPG and PNG.
- Create stunning image compositions using powerful masking tools and features and object control.

APPLICATIONS:

- CorelDRAW 9.
- Corel PHOTO-PAINT 9.
- Corel TRACE™.
- Corel CAPTURE™ 9.
- Microsoft Visual Basic for Applications (VBA 6).
- Bitstream Font Navigator 3.0 – font management.
- Canto® Cumulus® 4.0 – media asset management.

Publisher's quoted system requirements:
Pentium® 133 processor. Windows 95, 98 or Windows NT® 4.0. 32MB RAM (64MB recommended, and 100MB to install CorelDRAW 9). SVGA monitor.

Buying extra software with your new PC?

For just £20, Action can save you time by:

- ✓ installing the software you buy
- ✓ applying standard configuration
- ✓ running a diagnostic check

before your machine is delivered to you

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
CorelDRAW 9	WIN 95/98/NT	49-94-91	289.95	◗	319.95	316.75	
CorelDRAW 9 **Upgrade**	WIN 95/98/NT	49-31-13	154.95	◗	169.00	168.60	
CorelDRAW 9 Office Edition	WIN 95/98/NT	49-55-40	174.95	◗	194.95	193.00	
CorelDRAW 9 Office Edition **Upgrade**	WIN 95/98/NT	49-19-17	112.19	◗	113.95	113.49	
CorelDRAW 8 Classic	WIN 95/98	49-56-06	54.95	59.95	59.35	58.76	NEW

OTHER ITEMS

FOR COREL LICENSING SEE PAGE 796

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

IMAGE EDITING & GRAPHICS

Microsoft | Digital Workshop



£30.35
ONLINE
38-29-63

Microsoft® PhotoDraw™ 2000 business graphics software uniquely provides photo editing and illustration in one easy-to-use program to help Microsoft Office and business users create custom looking graphics to use in PowerPoint®, Word, Publisher and on the Web.

FEATURES:

- Powerful image editing – capture, retouch, clone and manipulate digital images.
- Illustration – draw customised AutoShapes or use freehand drawing and painting tools including unique Photo Brushes.
- High-quality, customisable content – PhotoDraw provides more than 20,000 graphics and 300 professionally designed business templates.
- Point-and-click effects – more than 350 special effects can be instantly applied to photos, clip art, shapes and text.
- 3-D capability – users can apply 3-D effects to clip art, shapes and text with a single mouse-click.
- Design expertise – more than 300 customisable Web and business templates created by professional designers ensure great results.

Publisher's quoted system requirements:
Windows 95/98 operating system or Windows NT 4.0 or later. 16MB of RAM (32MB recommended); 200MB of available hard disk space. CD-ROM drive. Super VGA monitor. 1MB of VRAM. Mouse, or compatible pointing device.



£74.95
ONLINE
49-32-80

Digital Workshop Paint Shop Pro 6 takes image editing to a new level of functionality and ease of use. Designed for users who want control, power, and flexibility, Paint Shop Pro 6 delivers the tools you need to easily capture, create, enhance, and optimise your graphics projects.

FEATURES:

- Editable text and tools including Vector drawing tools and object manipulation.
- Creative tools such as multiple colour gradients, special effects and filters.
- Web graphics solutions with Jpeg and gif optimiser.
- Digital imaging solutions such as camera support and multiple image printing.
- Productivity enhancements with multiple level redo and OLE screen capture.
- Includes Animation Shop 2.0.

Publisher's quoted system requirements:
Pentium® or comparable processor 200MHz of faster. Windows® 95, 98 or Windows® NT 4.0 32MB of RAM (64MB of RAM recommended). 4x CD-ROM or faster recommended. 30MB of available hard disk space for minimum installation, 75MB of available hard disk space for full installation (200MB recommended). 256-colour display adapter at 800 × 600 resolution. Pressure-sensitive tablet recommended.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Microsoft PhotoDraw 2000	WIN 95/98/NT	46-94-83	72.89	74.95	74.49	74.10
Microsoft PhotoDraw 2000 **Upgrade**	WIN 95/98/NT	38-29-63	30.35	30.95	30.89	30.75
Digital Workshop Paintshop Pro 6.0	WIN 95/98/NT	49-32-80	74.95	89.95	87.25	84.63

OTHER ITEMS

FOR MICROSOFT LICENSING SEE PAGES 793–795
FOR DTP SEE PAGES 836, 838, 839, 841, 842

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

OCR — SCANSOFT



ScanSoft's OmniPage Pro 10.0, the latest release of the world's best-selling OCR software, is the most accurate, flexible and easy way to convert your paper documents into editable electronic text.

FEATURES:

- Significant increase in accuracy due to the amalgamation of two leading OCR technologies.
- Improved format retention including recognition of spreadsheets, tables and columns.
- Even easier to use with a more streamlined user interface.
- 'Text to Speech' function: check your OCR results by having OmniPage read them back to you.
- When saving to an application like WORD, the program can be automatically launched for you.
- Improved processing of text on dark or coloured backgrounds.
- Includes OmniPage Web Personal Edition. Makes creating your own web-site as easy as scanning a page.

Publisher's quoted system requirements:
Intel Pentium or better processor running Microsoft Windows 95, 98, 2000, or Windows NT 4.0. Minimum of 50MB free hard disk space (up to 90MB recommended). SVGA monitor with 256 colours. Windows compatible pointing device. CD-ROM drive, and 32MB RAM. Includes support for over 100 flatbed and edge-fed, black and white, greyscale and colour scanners, including models from UMAX, Hewlett-Packard, and Microtek, as well as as other TWAIN-compliant devices.



New Scan Suite Plus has all the tools you need to get professional results and the best out of your scanner every time, all in one box.
It offers you six best-of-breed scanner software products from three industry leaders.

OmniPage Pro 10.0. World's Best Selling OCR software – quickly turns paper documents into editable text files.

MGI PhotoSuite III SE. Includes step-by-step guides that allow users of any experience level to effortlessly prepare, compose, organize, share and print photos.

PageKeeper Pro 3.0. An electronic filing system which allows you to file and then retrieve all your scanned images and electronic files.

NetObjects Fusion 4.0. The fast and easy way to build business Web sites. Create, manage and update effective sites quickly and efficiently in its WYSIWYG environment.

OmniPage Web Personal Edition. Allows you to scan documents and convert them to web pages.

Post-It Software Notes. From 3M, lets you tag Post-It Notes to your electronic documents.

You can upgrade to Scan Suite Plus from **ANY** OCR package – including the light version that came bundled with your scanner.

Publisher's quoted system requirements:
Pentium processor 166MMX. Windows 95/98 64MB RAM for Win 2000 or Windows NT 4.0. 16MB RAM minimum (32MB recommended). 325MB hard disk space SVGA or VGA monitor with 256 colours. CD-ROM drive.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
OmniPage Pro 10.0	WIN 95/98/NT	36-99-72	337.87	▶	349.95	346.45	
OmniPage Pro 10.0 **Competitive U/G**	WIN 95/98/NT	38-30-01	63.04	65.95	65.29	64.64	
Scan Suite Plus	WIN 95/98/NT	57-39-41	369.60	▶	379.95	376.15	NEW
Scan Suite Plus **Upgrade**	WIN 95/98/NT	81-42-02	72.18	74.95	74.20	73.46	NEW

OTHER ITEMS

FOR SCANNERS SEE PAGES 346–351
FOR CD-ROM DRIVES SEE PAGES 243–244
FOR DIGITAL CAMERAS SEE PAGES 329–341

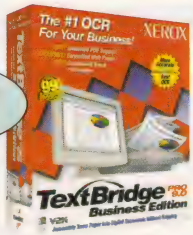
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW *item on this page*

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

OCR

XEROX



£255.95
ONLINE
49-53-94

TextBridge Pro 9.0 Business Edition is the first choice software to accurately turn paper documents into digital files without retyping. TextBridge Pro is the only OCR that outputs formatted Web Pages while maintaining the page's layout.

Publisher's quoted system requirements:
Windows 95, Windows 98, Windows 2000 and Windows NT 4.0. 486 or higher Intel processor. 24MB RAM (32MB recommended). 20MB hard disk space recommended.



£45.83
ONLINE
53-00-85

TextBridge Pro Millennium is more advanced and easier-to-use with over 99% text accuracy, even on poor quality originals. Scan direct into most of today's popular applications, and get instant Web pages, automatically.

Publisher's quoted system requirements:
Intel 486 or higher processor. Windows 98, 98, 2000. 24MB RAM, 32MB recommended. Hard disk space 20MB. Internet Explorer 4.0 or later, Netscape Navigator 5.0 or later.



£47.74
ONLINE
49-70-28

PaperPort Deluxe 6.0 from **Xerox** allows you to organise, file, edit, copy, fax, e-mail and share all your paper-based information from one easy-to-use screen. Improve the overall quality of your scans by tweaking their brightness, eliminating red eyes, increasing sharpness and even publish them on the Internet.

Publisher's quoted system requirements:
486-based PC or higher. Windows 95 or Windows NT, 16MB RAM, more for Windows NT. 25MB of available hard disk (35MB available for installation). CD-ROM drive.



£52.92
ONLINE
94-74-05

Xerox Pagis Pro Millennium allows you to organise documents, photos and web pages and easily search and retrieve by text, keywords, dates and more. Proactively delivers updates, such as service packs and scanner updates, directly to your desktop via the Internet. 5 powerful apps including Pagis Forms Fill-in, Copier, TextBridge Pro Millennium and Photosoap 2.

Publisher's quoted system requirements:
Windows 95, 98, 2000, NT 4.0, Pentium PC, 32MB RAM for Windows 95, 98, 2000, 64MB RAM for Windows NT 4.0. Space required: 120MB hard disk space, 220MB required if installing PhotoSoap2.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Xerox TextBridge Pro 9.0 Business Edition	WIN 95/98/NT	49-53-94	255.95	◗	259.00	258.25
Xerox TextBridge Pro Millennium	WIN 95/98/NT	53-00-85	45.83	47.95	47.47	47.00
Xerox PaperPort Deluxe 6.0	WIN 95/98/NT	49-70-28	47.74	49.95	49.75	49.25
NEW Xerox Pagis Pro Millennium	WIN 95/98/NT	94-74-05	52.92	54.95	54.40	53.86

OTHER ITEMS
FOR SCANNERS SEE PAGES 346–351

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

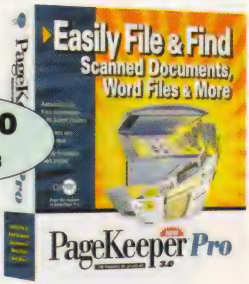
OCR — SCANSOFT



£73.35
ONLINE
52-17-73

FREE
IBM IDEASCAN 2000
FLATBED SCANNER, WORTH
£109.00 WITH EVERY
PAGEKEEPER PRO 3.0
PURCHASED
53-00-08
While Stocks Last

£99.00
ONLINE
53-00-08



OmniForm 4.0 allows users to convert paper into electronic forms, which can be edited, sent to other users, filled out on-screen, stored for re-use, printed and even keep its data in a database. OmniForm works with any form, regardless of colour, style or format. It also converts electronic forms created in Microsoft Word and Excel.

FEATURES:

- Recognises the form fields, so the form can be filled on your PC – just 'tab and type'.
- Logical Forms Recognition™ (LFR) technology automatically recognises form elements including graphics, fillable fields, check boxes, comb fields, tables and text, etc. It converts them to editable objects on a new electronic form.
- Includes an extensive set of design tools that enable the user to correct conversion errors or create forms from scratch.
- Save forms in a variety of formats including the OmniForm file format, Microsoft Word 95, 97 and run-time Mailable Fillers which can be easily distributed for filling.
- Saves to Web-ready formats including DHTML, HTML and Fillable PDF, making it easy to create good-looking forms for the Internet.
- Automatically creates a database that can store up to 10,000 records per form. Users can easily search the database for previously entered information.

Publisher's quoted system requirements:
486 PC or higher. Windows 95, 98 or NT 4.0. 16MB RAM minimum (32MB recommended). 45MB free hard disk space. 10MB free hard disk space for OmniForm filler. CD-ROM drive. SVGA or VGA monitor with at least 256 colours.

PageKeeper Pro 3.0 offers users a document management application that organises and quickly retrieves scanned paper and electronic documents easily and automatically. PageKeeper enables users to scan, organise, store, view, annotate, find and use any documents on their computer.

FEATURES:

- Interface is a natural extension to the Windows interface; folders, drag-and-drop, cut, copy, paste, etc.
- Manage any type of document, both scanned paper documents and electronic documents in the one application.
- Easily visually locate files with folders and proportional thumbnails. Retrieve documents by searching on words within your document, (scanned or electronic).
- Automatically places documents into smart folder's, according to user-specified criteria, such as topic, filetype, data, recurring words, etc.
- Includes a full version of the Post-It Notes software that you use every day, to add comments and keywords to any document.

Publisher's quoted system requirements:
Pentium or better processor. Microsoft Windows 95, 98 or Windows NT 4.0. 16MB RAM for Windows 95, 32MB RAM for Windows 98 and Windows NT. 150MB of free hard disk space during installation (at least 100MB must be on the drive where Windows is installed). VGA monitor with 256 colours. CD-ROM drive for installation. Windows-compatible pointing device.
A compatible scanner if you plan to scan documents.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
OmniForm 4.0	WIN 95/98/NT	52-17-73	73.35	74.95	74.79	74.39
PageKeeper Pro 3.0	WIN 95/98/NT	53-00-08	99.00	99.00	99.00	99.00

OTHER ITEMS

FOR SCANNERS SEE PAGES 347–351
FOR CD-ROM DRIVES SEE PAGE 256
FOR DIGITAL CAMERAS SEE PAGES 329–343

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW *item on this page*

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

DIAGRAMMING

Microsoft



Visio 2000 Standard Edition is the fastest, easiest tool for creating professional-looking business diagrams. It's ideal for creating flowcharts, organisation charts, timelines and much more. Using its tight Microsoft Office integration, you can easily add meaningful graphics to your documents and presentations – bringing the power of clear visual communication to your everyday work. Plus, it's fully Internet-enabled making it easy to share diagrams and communicate your ideas across your corporate intranet and around the world.

FEATURES:

- Communicate intelligent processes with intelligent tools and create visually appealing, information-rich flowcharts with ease.
- Save time by letting the new dynamic grid automatically align and distribute the SmartShapes® symbols in your diagrams.
- Once you have assembled your diagram, add impact by using any of the new single-click formatting options such as colour schemes, backgrounds, borders and styles.
- Anchored windows make it simple to pan and zoom, giving you a constant bird's-eye view over your diagram. Other windows make it convenient to edit or display custom properties data, or to manipulate a shape's size and position details.
- Includes smarter timelines that help you communicate simple or complex schedules more easily.
- Add and delete columns in your Gantt Chart for information such as start date, end date and duration.
- Cut, paste and even edit your Visio drawings within Microsoft Office documents, spreadsheets and presentations.
- Incorporates Visual Basic for Applications (VBA) 6.0 and provides the latest industry standard programming language for creating highly customised business solutions.
- Provides real-time editing feedback. As you move, resize, format, or add text to shapes, Standard Edition instantly incorporates your revisions and realigns the diagram.

Customers requiring licensing for 10+ users require Visio Prema Licencing. **Please see page 806 for details.**

Publisher's quoted system requirements:
Intel Pentium processor (minimum); 166MHz or faster recommended. Microsoft Windows 95, Windows 98 or Windows NT 4.0. 16MB of RAM (Windows 95/98); 24MB of RAM (Windows NT); 32MB of RAM recommended for Windows 95/98 and Windows NT. 80MB of free hard-disk space (typical installation). CD-ROM drive (for installation only).

CHECK MEDIA BEFORE YOU BUY

www.action.com/microsoft

	DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	Visio 2000 Standard	WIN 95/98/NT	31-35-88	126.85	♦	128.95	128.18
NEW	Visio 2000 Standard **Version Upgrade**	WIN 95 98 NT	90-52-99	63.38	63.95	63.79	63.63

OTHER ITEMS

FOR UPGRADES SEE PAGES 815–818
FOR VISIO LICENSING SEE PAGE 806

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

NETWORK DIAGRAMMING

Microsoft

With **Visio 2000 Professional Edition**, you can get a clear picture of the networks, databases, software, processes, and Web sites you have, and even start planning for the ones you want. Visualise legacy systems. Documents development projects. Prototype architectures. The diagramming tools in Professional Edition translate the complexity of your day-to-day IT systems into a language that everyone understands, so that clients get the big picture, team members can co-ordinate their efforts, and projects run more smoothly.



FEATURES:

- Generic Network Shapes represent the latest networking technologies with generic shapes and symbols.
- Network-specific properties store asset, maintenance, and other data with network shapes.
- Network database and diagram wizards automatically link your network shapes to a database, or create a network diagram from a database of network information.
- Inventory and materials reports create a bill of materials or equipment inventory.
- Directory services diagrams create Microsoft Active Directory, Novell Directory Services (NDS), and LDAP-based structures.
- Directory navigator window view directory objects in your model in this dockable window.
- Usability and navigation features with Pan and Zoom window, Drawing Explorer window, and page tabs.
- Reverse engineer leading desktop and client/server databases, including code (check clauses, triggers, stored procedures, etc.).
- DBMS support – get support for client/server and desktop databases from IBM, Informix, Microsoft, Oracle, Sybase, Corel, and Inprise. Access others through ODBC and OLE DB drivers.
- Notation support – design databases using relational, IDEF1X, or Crow's Foot notation.
- Integration with other tools – import ERwin ERX files or legacy InfoModeler models.
- Object role modelling stencil – create conceptual models using Object Role Modelling (ORM) notation.
- Multiple software notations – create models using Booch, Rumbaugh, Schlaer-Mellor, Express-G, Jacobson, COM-OLE, and other notations.
- UML notation – create all UML 1.2 diagrams (activity, component, collaboration, deployment, sequence, statechat, static structure, use case).
- Reverse engineering – extract application code directly from Microsoft Visual Basic, Visual C++, and Visual J++ to produce UML class diagrams.

Customers requiring licensing for 10+ users require Visio Prema Licencing.
Please see pages 806 for details.

Publisher's quoted sytem requirements:
Microsoft Windows 95, Windows 98, or Windows NT 4.0 (with Service Pack 3.0 or later). Intel Pentium processor (minimum); 200MHz or faster recommended. 32MB of RAM required; 64MB or more recommended. 110MB of free hard-disk space (typical installation). CD-ROM drive (for installation only).

CHECK MEDIA BEFORE YOU BUY

www.action.com/microsoft

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Visio 2000 Professional	WIN 95/98/NT	53-78-29	252.79	◗	254.95	254.30	NEW
Visio 2000 Professional **Version Upgrade**	WIN 95/98/NT	64-78-48	126.13	◗	126.95	126.63	NEW

OTHER ITEMS

FOR SOFTWARE TRAINING BOOKS SEE PAGE 930, 931
FOR VISIO LICENSING SEE PAGE 806

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW item on this page

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

DIAGRAMMING

Microsoft



Visio 2000 Technical Edition is the leading tool for creating precise 2-D technical diagrams and drawings. Unlike CAD, it's fast and easy to use; just assemble drawings intuitively using more than 4,000 industry-specific SmartShapes symbols. Create your own shapes, link shapes to a database and generate reports instantly. Import and export Autodesk AutoCAD (DWG) and Bentley Systems MicroStation (DGN) files. Technical Edition delivers powerful drawing solutions for process engineering, facilities management, AEC, electrical engineering and more.

FEATURES:

- Intelligent, responsive drawing tools make it more efficient than ever to create, manage and edit drawings of any size. Automatic layouts, instant shape alignment, and do-it-for-you tools bring intuitive access to all diagramming tasks.
- Powers a full range of drawing types: from simple flowcharts to multi-page, highly detailed technical drawings containing tens of thousands of shapes.
- Faster results begin with the new start-up window, which lists all your recently used files and templates.
- Save time with the productivity enhancements. Automatic shape numbering eliminates time-consuming text entry. Page tabs make it easy to insert, re-name, re-order, and navigate through multiple-page drawings.
- Internet-enabled, allowing you to instantly share your diagrams with a broad audience or a select group via E-mail or your corporate intranet.
- Hyperlink the shapes in your Visio 2000 drawings to relevant external information located in other files or Web sites.
- Support for Vector Markup Language (VML) means you can export Viso 2000 drawings in a dynamic Web-ready format.
- Produce a Visio diagram, then include it in PowerPoint presentations to strengthen and clarify your ideas. With Visio 2000, diagrams embedded in PowerPoint slides can automatically adopt the PowerPoint colour scheme, allowing you to create more polished presentations in half the time.
- Create your own highly customised business applications on Visio 2000's open platform using the built-in Visual Basic for Applications 6.0 or other industry standard programming languages.
- Support for Windows Terminal Server allows administrators to adopt a thin client model, eliminating the need to install Visio technology on individual desktops.

Publisher's quoted system requirements:
Intel Pentium or faster processor (or equivalent processor). Microsoft Windows 95, Windows 98 or Windows NT 4.0. 16MB of RAM (Windows 95/98); 24MB of RAM (Windows NT). 55MB of free hard-disk space for a typical installation; 165MB of free hard-disk space for a full installation.
CD-ROM (for installation only).

Customers requiring licensing for 10+ users require Visio Prema Licencing.
Please see pages 806 for details.

CHECK MEDIA BEFORE YOU BUY

www.action.com/microsoft

	DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	Visio 2000 Technical	WIN 95/98/NT	77-93-84	256.28	▶	257.95	257.31
NEW	Visio 2000 Technical **Version Upgrade**	WIN 95/98/NT	86-87-29	126.13	▶	126.95	126.63

OTHER ITEMS
FOR UPGRADES SEE PAGES 815–818
FOR VISIO LICENSING SEE PAGES 806

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS 2000, WINDOWS NT

NETWORK DESIGN MODELLING

Microsoft

Visio® 2000 Enterprise gives users gains in productivity, offers increased Internet functionality, and integrates with Microsoft Office 2000 and Microsoft Windows 2000. As a technology platform, Visio 2000 delivers the easiest version of a Visio product to deploy and administer enterprise-wide. Complete solution for automated IT design and documentation, Visio® 2000 Enterprise Edition provides powerful design and documentation tools for IT specialists who develop and maintain networks, databases, software applications, and Web sites.

FEATURES:

- Automatically discover network devices in layer 2 (data link), layer 3 (IP network), and frame relay network environments using SNMP-based AutoDiscovery™ technology.
- Generate diagrams using more than 18,000 manufacturer-specific shapes.
- Import existing directory structures from Microsoft Active Directory, Novell Directory Services, and LDAP-based vendors.
- Design and re-engineer database systems from IBM, Informix, Microsoft, Oracle and others.
- Synchronize models with databases for up-to-date schemas, and merge multiple models to facilitate collaborative database design. Generate entity relationship models and database schemas from natural-language business rules.
- Reverse engineer Microsoft Visual Studio code into UML 1.2 models. Or, generate customizable Visual Basic, C++, and Java code skeletons from UML class diagrams to jumpstart development projects.
- Supports diagrams with thousands of nodes (networks), entities (databases), and classes (software).
- Drop diagrams into Microsoft Office documents for widespread distribution.
- Publish diagrams as Web pages in GIF, JPEG, PNG, or VML format.



Publisher's quoted system requirements:
MS Windows 95, Windows 98 or Windows NT 4.0 (with Service Pack 5 or later). Intel Pentium processor (minimum); 200MHz or faster recommended. 64MB of RAM (minimum for Windows 95/98); 128MB or more recommended 130MB of free hard-disk space (typical installation). CD-ROM drive (for installation only).

Customers requiring licensing for 10+ users require Visio Prema Licencing.
Please see pages 806 for details.

CHECK MEDIA BEFORE YOU BUY

www.action.com/microsoft

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Visio 2000 Enterprise	WIN 95/98/2K/NT	12-11-62	633.95	◗	637.95	637.29	NEW
Visio 2000 Enterprise **Version Upgrade**	WIN 95/98/2K/NT	38-30-46	427.09	◗	429.99	428.49	NEW

OTHER ITEMS

FOR VISIO LICENSING SEE PAGE 806

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW *item on this page*

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

GRAPHICS

COREL



£29.36
ONLINE
49-56-11

Whether you need clip art images, Web graphics, animated objects or photos, **Corel GALLERY 380,000** puts a world of images at your fingertips. Browse hundreds of categories or search by keyword to find what you're looking for. Then just drag and drop to add life to print projects or Web pages.

Publisher's quoted system requirements:
Windows 95, Windows 98 or Windows NT 4.0 486 DX 66 or higher recommended. SVGA (800 × 600, 256-colour) monitor (24-bit colour recommended). 16MB RAM, 2 × CD-ROM drive, Mouse or tablet. Netscape Navigator 3.0, Microsoft Internet Explorer 2.0 or any other browser that supports HTML 3.0.



£64.04
ONLINE
43-72-64

Add excitement to any project with **Corel Gallery™ 1,000,000,** a gigantic collection of clipart images, photos, fonts, sounds and Web graphics. Find images with the new image browser/search tool, or check the full-colour clipart manual to find what you're looking for. Plus touch-up, alter or enhance your digital images with easy-to-use powerful photo-editing tools. With over one million images to choose from, this collection is ideal for Web pages, newsletters, flyers and more.

Publisher's quoted system requirements:
Windows 95, 98 or NT 4.0. 16MB RAM. 486DX/66 processor. 256-colour Supter VGA (24-bit recommended). Mouse or tablet. CD-ROM drive.



£41.02
ONLINE
49-54-91

Give all your projects a professional look with **Corel Gallery™ 1,300,000,** an incredible selection of high-quality clipart images, photos, sounds, animated objects and Web graphics. Browse hundreds of categories, search by keyword or use the full-colour sample catalogue to find images fast. Then drag and drop the images into almost any application that supports graphics. Also, easy photo editing lets you quickly add special effects to photographs.

Publisher's quoted system requirements:
486DX/66 or higher processor. Windows 95, Windows 98 or Windows NT 4.0. 16MB RAM. 2 × CD-ROM. SVGA (800 × 600 256 colour monitor) 24-bit colour recommended). Mouse or Tablet. Netscape Navigator, Microsoft Internet Explorer 2.0 or any other browser that supports HTML 3.0.

CHECK MEDIA BEFORE YOU BUY

	DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	Corel Gallery Magic 380,000 clip art	WIN 95/98/NT	49-56-11	29.36	32.95	31.96	31.00
	Corel Gallery 1,000,000	WIN 95/98/NT	43-72-64	64.04	67.00	66.33	65.67
	Corel Gallery 1,300,000	WIN 95/98/NT	49-54-91	41.02	41.95	41.70	41.45

OTHER ITEMS

FOR SOFTWARE PUBLISHER INDEX SEE PAGES 810–814
FOR GRAPHICS SOFTWARE SEE PAGES 840–844

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

CAD



Autodesk AutoCAD LT 2000 is the easiest, most efficient way for you to extend your design team, because it's simple enough for new-to-CAD users, accessible enough for occasional users and powerful enough for professional-strength drafting. Plus it's the only low-cost, professional 2D CAD program to combine productivity-packed precision and award-winning HTML-based online help with unprecedented ease-of-use and 100 percent AutoCAD® 2000 compatibility. Team members can exchange drawing files with confidence knowing that data integrity and visual fidelity are ensured.

FEATURES:

- With the Multiple Design Environment (MDE) you can open multiple drawings within a single session and move objects and data between them.
- Multiple Layouts lets you store multiple drawing sheets within a single drawing file and tab between them for more efficient work sessions.
- Streamlined plotting offers ease of use, power and flexibility tailored to your needs and the new Plotting feature updates AutoCAD LT software's plotting functionality.
- The new Find feature provides you with a quick and easy method for finding and replacing text within a drawing file.
- Combined with a more consistent dimensioning interface, multiple dimensioning enhancements make the overall task of dimensioning both easier and faster.
- Easy-to-use Scale OLE Object dialog box provides a variety of ways to control the size of OLE text objects, which means you get more accurate plots and better integration with other Windows applications.
- Support for the Microsoft IntelliMouse and compatible pointing devices have been enhanced with Realtime Pan and Zoom features.
- Expands the powerful capabilities of the DXF™ format through improved database exchange, more 'intelligent' DXF files, a higher degree of interoperability and reduced loading times.
- With Drawing Properties, you can embed ancillary data in drawing files and perform queries and retrievals of these drawing files based on this data.
- The Edit Hyperlink dialog box and the Web toolbar enable you to share and access data over the Intenet with ease.
- The ePlot command lets you electronically plot drawings to scale and send them via e-mail for your extended design team members to view.
- Extensively optimised for the 32-bit Windows environment.
- Comprehensive learning support includes online learning from beginner to advanced and solutions for common questions.

Publisher's quoted system requirements:
Pentium based PC. Windows 98, 95 or Windows NT 4.0. 32MB RAM. 74MB free hard disk space. CD-ROM Drive. Mouse or other pointing device. Wintab digitiser (optional).

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
AutoCAD LT 2000	WIN 95/98/NT	77-82-99	427.16	➧	429.95	428.88
AutoCAD LT 2000 **5 pack**	WIN 95/98/NT	90-52-48	1948.56	➧	➧	1969.00
AutoCAD LT 2000 **Upgrade**	WIN 95/98/NT	31-35-30	124.95	➧	149.00	147.51
AutoCAD Symbols 2000 Architectural Library	WIN 95/98/NT	49-19-53	96.40	➧	104.95	101.80
AutoCAD Symbols 2000 Engineering Library	WIN 95/98/NT	49-55-65	103.24	➧	104.95	104.32

OTHER ITEMS
FOR DIAGRAMMING SOFTWARE SEE PAGES 848–851

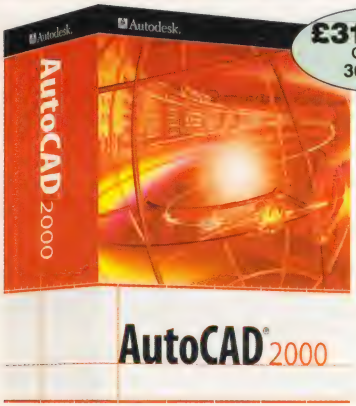
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

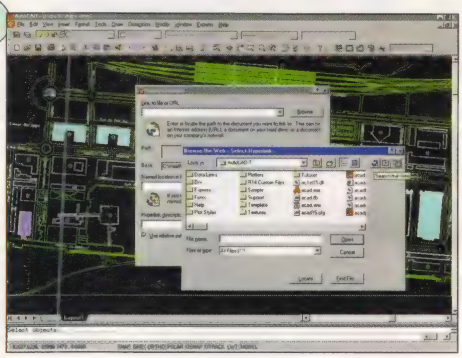
PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

CAD

Autodesk.



£3150.00
ONLINE
36-72-48



AutoCAD 2000 is the new streamlined, feature-rich, forward-looking version of the world's leading design software. The new AutoCAD connects users with their design information, their colleagues, and the world. It integrates the most sought after features with a powerful technology framework, creating a design environment that is both robust and accessible. Through its innovative Heads-Up Design™ environment, AutoCAD 2000 becomes more transparent during the design process, and frees the customer to focus more on the design, and less on the software. AutoCAD 2000 is designed for use by design and drafting professionals across industries, and across the globe. Existing AutoCAD customers, users of other CAD products, and IT/CAD managers will all benefit from this release.

Continuing in the AutoCAD tradition of openness and extensibility, AutoCAD 2000 builds upon this foundation, with feature improvements and additions like: Visual LISP, VBA, ActiveX and ObjectARX. These improvements enable customers to leverage AutoCAD's inherent flexibility to integrate and automate more of the design process than ever before.

Publisher's quoted system requirements:
Intel Pentium 133MHz processor. Windows NT 4.0, Windows 95 and Windows 98. AutoCAD 2000 will be updated to support Windows 2000 Professional (formally Windows NT Workstation 5.0) and Windows 2000 Server (formally Windows NT Server 5.0). 32MB RAM minimum although memory required depends on the size and contents of the drawings being used. 800 × 600 resolution monitor. CD-ROM drive.

FEATURES:

- 2D and 3D multi-discipline design and drafting.
- Substantial productivity gains and presentation quality drawings.
- Easy access to reusable design data and more complete use of dialog boxes, menus and on-screen picks.
- Boosts workflow and efficiency with greater task automation.
- Streamlined output and Expanded Reach.
- Clearly communicated design intent and stronger presentations in less time.
- Unites design teams securely and cost efficiently sharing data and linking resources to drawings.
- Greater customisation and extensibility.
- For Programming everything from menus and toolbars to individual drawing objects.
- Powerful Technology Framework.
- Connects customers with their design information, their clients and colleagues, the web and the world.
- Evolutionary, so the upgrade path is straightforward.
- Three months FREE technical support.

NOW AVAILABLE
AutoDESK AutoCAD 2000, supplied in partnership with CADLine, an AutoDesk Systems Centre – £3,150+VAT.
Please call Action for details: 0800 333 333 and quote Cat No: 36-72-48

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Autodesk AutoCAD 2000	WIN 95/98/NT	36-72-48	3150.00	➧	➧	3150.00

OTHER ITEMS
FOR DIAGRAMMING SOFTWARE SEE PAGES 848–851

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

SPEECH RECOGNITION

IBM™

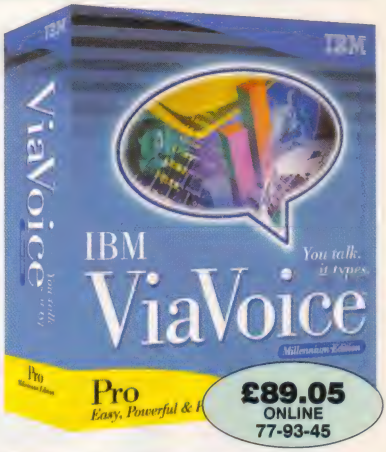
IBM ViaVoice Millennium Professional's speech recognition technology makes computer work as convenient as speaking into a computer microphone, mobile recording device or a telephone handset. ViaVoice is IBM's innovative, award-winning voice recognition technology that lets you control your computer with your voice instead of a keyboard or a mouse. You talk, your computer types. Or your computer talks and you listen. ViaVoice simplifies many computer tasks from creating text to sending e-mails to surfing the Web.

With ViaVoice Professional you can speak directly into the most popular Windows® applications using natural, continuous speech. Create personal, voice-activated shortcuts to meet your specific needs. ViaVoice Pro is always learning how you talk, so recognition improves every time you use it. ViaVoice Pro's intuitive interface and Natural Language Commands can make working with your PC more productive than you ever thought possible. Simply speak into Microsoft® Word, or most other popular text applications, and watch the words appear on your screen.

Navigate, edit, and format in applications like Microsoft OutLook®. Develop spreadsheets in Microsoft Excel® and import them into documents or presentations – all by speaking to your computer. Create VoiceText dictation macros for frequently used text like addresses, or activate existing Word macros using only your voice. Produce voice-activated templates for boilerplate forms like letterheads.

FEATURES:

- The easy, powerful and productive way to communicate with your PC.
- Use voice commands to control and navigate your desktop, your applications, and the Internet.
- Input, edit and format text using 'Natural Language Commands' in Microsoft Word 97 and 2000, Microsoft Excel 97 and 2000 and Microsoft OutLook 97, 98 and 2000.
- Dictate directly in to messaging, e-mail and chat room applications.
- Create voice navigation macros using Navigation Macro Creator.
- Specialised Topics include: Cuisine, Chatters Jargon, Business and Finance and Computers.
- Proof-read your documents with the ViaVoice Outloud text-to-speech feature.
- Optional Legal and Medical Dictionaries.
- Voice Mouse for hands-free mouse functions.
- Speech-enabled Web browsing for America Online® 4.0 or greater, Microsoft® Internet Explorer 4.01 (Service Pack 2) or greater, and Netscape® Communicator™ 4.5 or greater.
- An active vocabulary expandable and customisable to up to two million words.
- Automatic 'Analyse my Voice' feature.



ViaVoice Web Millennium Edition gives you the ability to surf the web with voice commands such as 'surf the web' or 'Go to favourites'.
You can send and receive e-mail and instant messages and participate in online chats just by dictating.
Features include a built-in chatter's jargon vocabulary with abbreviations and emoticons.

Publisher's quoted system requirements:
Pentium® 233MHz and 256MHz and 256K L2 cache (or equivalent) including AMD-K6® 233MHz with 256K L2 cache. For Windows 95 and Windows 98 48MB RAM, for Windows NT 64MB of RAM. 310MB available hard disk space. Quad-speed CD-ROM drive or faster. Display mode set to 256 colours or higher. A Windows 95/98/NT compatible 16-bit sound card of good recording quality (with microphone input jack). Internet Explorer 4 with Services Pack 2 or higher.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
ViaVoice Millennium Professional	WIN 95/98/NT	77-93-45	89.05	99.95	96.95	94.04	
ViaVoice Millennium Standard	WIN 95/98/NT	86-86-92	30.25	33.95	32.93	31.94	
ViaVoice Millennium Edition	Mac	49-96-54	45.21	46.95	46.48	46.02	NEW
ViaVoice Web Millennium Edition	WIN 95/98/NT4	49-56-14	37.51	38.95	38.56	38.17	NEW

OTHER ITEMS

FOR LOTUS LICENSING SEE PAGES 797, 798

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

SPEECH RECOGNITION



£165.32
ONLINE
49-18-86

Dragon NaturallySpeaking Mobile 4.0 is the complete speech recognition system for people on the move. It's the easy, fast, natural way to capture your thoughts, dictation is immediately, automatically transcribed.

Publisher's quoted system requirements:
Minimum 266 MHz Pentium Processor with available serial port. Windows 95, Windows 98, or Windows NT 4.0. 48MB RAM (Recommended 64MB) for Win 95/98; 64MB for Windows NT 4.0 (96MB recommended). Hard Drive 200MB minimum. Dragon Systems-certified or equivalent 16-bit sound card or built-in audio system with input quality equal to or greater than the Creative Labs Sound Blaster 16.



£95.53
ONLINE
49-32-70

Dragon NaturallySpeaking™ Preferred 4.0 includes advanced features that help you work faster. Speak at a normal pace – up to 160 words per minute. Speech is transcribed immediately on the screen and in reports, letters, and e-mail messages, chat rooms, Instant Messaging windows and the Internet.

Publisher's quoted system requirements:
200MHz Intel® Pentium® processor with MMX™ or equivalent. Windows® 95/98, or NT® 4.0 (with Service Pack 3 or greater). 48MB RAM for Windows 95/98 (64MB is recommended), 64MB RAM for Windows NT 4.0. 200MB free hard-disk space. CD-ROM drive. Creative Labs® SoundBlaster® 16 or equivalent sound board supporting 16-bit recording.



£55.39
ONLINE
49-70-98

Dragon NaturallyClear USB works by capturing audio input from the user, converting it to digital information and then providing that data directly to the computer – rather than relying on the computer's internal sound card to perform this conversion.

Publisher's quoted system requirements:
USB compliant laptop computer with Windows 98 and available USB port. Installed speech recognition software (such as Dragon NaturallySpeaking Mobile).

CHECK MEDIA BEFORE YOU BUY

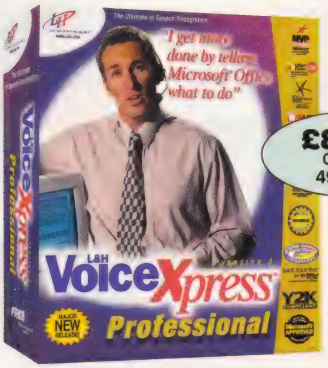
DESCRIPTION	FORMAT	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Dragon NaturallySpeaking Mobile 4.0	WIN 95/98/NT	49-18-86	165.32	▶	169.95	168.25
Dragon NaturallySpeaking 4.0 Preferred	WIN 95/98/NT	49-32-70	95.53	99.95	98.95	97.96
Dragon NaturallyClear USB	WIN 98	49-70-98	55.39	57.95	57.37	56.80

OTHER ITEMS
FOR COMMUNICATIONS SOFTWARE SEE PAGES 871–878

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

UTILITIES



£81.20
ONLINE
49-50-13

Lernout & Hauspie Voice Xpress Pro is the most comprehensive speech recognition solution for Microsoft Office. Accurately enter text and numbers as fast as you speak. Easily control the Windows desktop, standard application functions and Microsoft office 97/2000 using natural everyday speech, or by speaking their menu commands.

FEATURES:

- L&H Xpress learns your voice in around 5 minutes.
- New 260,000 word vocabulary and enhanced UK language model for up to 98% accuracy.
- Better results from the start with new L&H diagnostic tools to help configure your PC for optimum speech recognition performance.
- Optimised for Pentium I (233MHz) II and III, Celeron, AMD and Cyrix processors.
- The most complete range of 'natural language' voice commands for Microsoft Office 2000.



£126.41
ONLINE
49-27-87

Lernout & Hauspie Power Translator Pro translates documents directly within your favourite word processor (Microsoft® Word and Corel® WordPerfect®) while preserving your formatting. You can also translate within any of your favourite e-mail applications, such as Microsoft Outlook, Lotus® Notes, Eudora Pro, and more.

FEATURES:

- 30 Specialist dictionaries included.
- Translate English to and from French, German, Spanish, Italian, Brazilian, Portuguese.
- Interactive Conversational mode – type in what you want to say and it translates for you.
- Word and phrase look up reference tools.
- Translation utility for online 'chat'.
- Web Translator included.
- Online reference tools.

Publisher's quoted system requirements: Windows 95, 98 or NT 4.0 (with SP-3 or greater). Performance equivalent to an Intel Pentium 233MHz processor with MMX technology. 48MB RAM for Windows 95, 98. 64MB RAM for Windows NT 4.0. 160MB free disk space. Creative Labs Sound Blaster 16 compatible or sound board supporting 16-bit 22kHz recording (no sound board required if using a USB microphone). CD-ROM drive for installation.

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
L&H Voice Xpress 4.0 Professional	WIN 95/98/NT	49-50-13	81.20	84.95	84.10	83.26
L&H Voice Xpress 4.0 Mobile Professional	WIN 95/98/NT	49-95-85	174.13	◗	179.00	177.21
L&H Voice Xpress 4.0 Advanced	WIN 95/98/NT	49-23-43	57.30	59.95	59.35	58.76
L&H Voice Xpress 4.0 Standard	WIN 95/98/NT	49-71-14	31.14	34.95	33.90	32.88
L&H Power Translator Pro	WIN 95/98/NT	49-27-87	126.41	◗	129.95	128.65
L&H Simply Translating	WIN 95/98/NT	49-55-16	31.14	34.95	33.90	32.88

OTHER ITEMS

FOR SOFTWARE INDEX SEE PAGES 810–814

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS 3.x, WINDOWS 95, WINDOWS 98

TUTORIAL/LABEL SOFTWARE

MINDSCAPE AVERY



Mindscape's Mavis Beacon Teaches Typing 9.0
Mavis Beacon has taught millions of people how to type or improve their typing. On entering the virtual classroom, you are placed in the right lesson for your age group and skill level. From then on, your progress is monitored and encouraged every step of the way.

FEATURES:

- **Enhanced Adaptive Response Technology:** Customises the program to your typing strengths, weaknesses, and skill level.
- **Age appropriate content and lessons:** Optimise your learning with interesting materials designed especially for kids, teens and adults.
- **8 games:** Build your typing speed, accuracy and rhythm with a variety of fun-filled games including the Creature Lab, new to this version.
- Watch the on-screen guide hands type the correct finger positions.
- **Live action videos:** View 25 minutes of ergonomic tips and exercises to develop safer and more comfortable keyboarding habits.

Publisher's quoted system requirements:
Windows 95/98, 486/66MHz Processor or better. RAM: 16MB. Hard Drive: 40MB. Super VGA (640 × 480 × 256 color). CD-ROM 2 × or better.



Avery LabelPro 2.09 lets you create professional looking labels in less time than you ever imagined. Print eye-catching graphics or text in your choice of fonts, even in colour. Avery LabelPro 2.09 automatically formats text to fit and align properly, so you get perfect results every time.

FEATURES:

- AutoMerge takes you through the process of merging a list with a design.
- Shrink-to-fit is unique to LabelPro, automatically fitting all text onto each label for perfect results every time.
- Powerful step-by-step on-screen instructions guide you through key tasks.
- Full colour support enables you to print text, shapes and graphics in colour.
- Text rotation enables you to rotate TrueType font text to any style.
- Create barcodes, using EAN-8, EAN-13, Code-39, Code-128, UPC-A, UPC-E and Interleaf 2/5.
- Perfect for addresses, barcodes and identification labelling.

Publisher's quoted system requirements:
2MB RAM, 386 or higher processor, Windows 3.x or later, VGA or higher. Laser, inkjet or dot matrix printer supported by Windows (Windows 3.1 or later recommended for dot matrix).

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO 3½"	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Mindscape Mavis Beacon Teaches Typing 9.0	WIN 95/98	—	49-70-39	20.95	24.95	24.20	23.48
Avery LabelPro for Windows V2.09	WIN 3.x	49-32-01	—	28.63	29.95	29.65	29.35

OTHER ITEMS

FOR LABEL PRINTERS SEE PAGES 483–486
FOR DATABASE SOFTWARE SEE PAGES 828–830

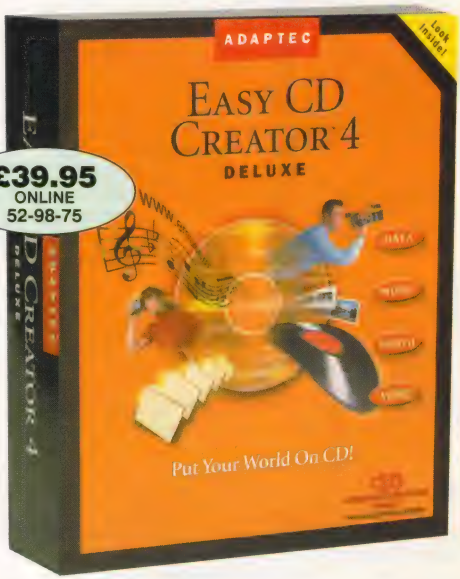
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

UTILITIES

adaptec

Adaptec's Easy CD Creator Deluxe goes way beyond the software that came with your CD-Recorder and all earlier deluxe editions. Now it's easier than ever to create music, photo, video and data CDs. Access music on the Internet. Fine tune your music tracks. Edit and enhance photos and videos with a pro's touch. Save and share data with confidence. Also, CD Guide™, a new animated character, takes you through the steps of creating your CDs.



£39.95
ONLINE
52-98-75

FEATURES:

- Send video postcards, share photo albums on CDs that play on any PC – no special software required.
- Volume names will allow a relaxed character set, including spaces.
- When copying an audio track to hard disk, you can decide whether to cut or preserve any silence included at the end of the track.
- Disc Information: Free space displayed in Mbytes for data or Min:Sec for music.
- Select Track-at-Once or Disc-at-Once in the layout window, and space available on the disc is calculated correctly on the basis of this setting.
- Improved jewel case creator, with new features including: curved text, in-place editing, professionally designed themes and support for a wide range of commercially available CD labels and insert papers.
- Set an option to automatically verify data after recording.
- Gap control for audio: when recording in Disc-at-Once mode, you can set exactly the size of the gap you want between tracks.
- More understandable error messages.
- Download audio disc information (artist, title, track titles) from the CDDB database and automatically insert it into the Easy CD Creator layout.

INCLUDES:
Easy CD Creator 4 Deluxe; Take Two; DirectCD™; Web-CheckUP; CD Spin Doctor; Free authorised MP3 songs; Liquid Music Player; CD Copier; PhotoRelay (includes Photo Album and Video Postcard features); Video CD Creator; Jewel Case Creator; MGI PhotoSuite II SE; MGI VideoWave II SE; Sound Editor Session Selector and Internet Explorer.

Publisher's quoted system requirements:
PC running Windows® 95, Windows 98 or Windows NT® 4.0. 166MHz Pentium or faster. 32MB RAM. Minimum 55MB free hard disk space (90MB recommended for typical installations). Recordable or ReWritable CDs. 800 × 600 display, 256 colours or more. Internet Access to take advantage of Internet features. Optional: Windows compatible sound card (16-bit or better) and analog source (LP, cassette, DAT or CD) attached to stereo receiver with line-out capabilities for CD Spin Doctor. Optional: Scanner, digital camera or video camcorder for PhotoRelay™. Video capture device required to import video from video camera. CD-Recorder or CD-ReWritable drive.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Easy CD Creator Deluxe 4.0	WIN 95/98/NT	52-98-75	39.95	44.95	44.50	44.06

OTHER ITEMS

FOR CD-REWRITABLE DRIVES SEE PAGE 253–255

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW item on this page

PRODUCTS FOR: DOS, WINDOWS, 95, 98, 2000, WINDOWS NT

UTILITIES



£20.02
ONLINE
49-96-57

Whether you're deploying new PCs, upgrading hard drives, or simply backing up data, **Drive Image Pro** from **PowerQuest** is the only SmartSector™ imaging solution that can create and restore an *exact* image of your Windows desktop environment. Only Drive Image Pro ensures that you'll preserve your Windows optimisations, deploy Windows workstations fast, and more.

FEATURES:

- PowerCasting™ – Combines SmartSector imaging and TCP/IP multicasting, to simultaneously deploy Windows workstation across the enterprise in minutes.
- DeltaDeployer – Create custom software updates or desktop changes, including driver changes, registry changes or updates via e-mail, for individual installation on each PC.
- Includes PartitionMagic® Ori 4.0; Drive Image File Editor; DriveMapper™ and MagicMover™.

Also available from PowerQuest: **DriveCopy 2.0** safely, easily and affordable copies all files from one hard drive to another. **DataKeeper 3.0** is the first 'real-time' brochure solution. Point your browser at www.action.com for more info.

Publisher's quoted system requirements:
Windows 2000, Windows 95, 98, Windows 3.x, NT, DOS, or OS/2. Intel/386™ SX compatible or higher. 8MB RAM (16MB required for FAT32 or NTFS). CD-ROM drive. 3½" diskette drive. 16MB free hard-disk space. VGA or higher video support.



£23.85
ONLINE
49-96-01

PartitionMagic 5.0 provides all the functionality and ease of version 4.0, allowing you to create, resize, merg and convert partitions on your hard drive without destroying data, and reclaim lost disk space, but also offers many new features.

FEATURES:

- NEW Merge FAT and FAT32 partitions and vice versa.
- NEW Ability to view a list of pending operations.
- NEW Improved interface with colour key to indicate file system type, indicators for the 2GB boot boundary and 1024 cylinder boundary, used and unused space indicators within partitions.
- Safely manage multiple operating systems.
- Native Windows interface – run PartitionMagic without leaving Windows.

Publisher's quoted system requirements:
Windows 3.x, 95, 98, NT 4.0 Workstation, DOS 5.0 or later. Intel/486 DX compatible or higher. 16MB RAM (additional required for FAT32 support or hard drives larger than 4GB). CD-ROM drive. 3½" diskette drive. VGA or higher video support. 12MB free hard drive space (8MB additional space required for BootMagic).

	DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	PartitionMagic 5.0 CD-Kit	X-Platform	49-19-00	39.95	49.95	49.45	48.96
	PartitionMagic 5.0 – **5 pack**	X-Platform	49-55-31	154.43	◗	159.95	158.35
	PartitionMagic 5.0 **Upgrade**	X-Platform	49-96-01	23.85	24.95	24.70	24.45
	PartitionMagic 5.0 Pro*	X-Platform	49-19-02	339.45	◗	348.95	345.46
NEW	DriveImage 3.0	X-Platform	49-56-20	38.47	39.95	39.55	39.15
NEW	DriveImage Pro 3.0 Version Upgrade	X-Platform	49-96-57	20.02	20.95	20.74	20.53
	DriveImage Pro 3.0 (**10 Pack**)	X-Platform	49-17-72	145.87	◗	149.95	148.45
	DriveImage 2.0	X-Platform	43-48-65	38.47	39.95	39.55	39.15
	DriveCopy 2.0	X-Platform	43-57-92	22.23	24.95	24.20	23.48
	DataKeeper 3.0	WIN 95/98	49-32-13	30.25	33.95	32.93	31.94

*Prices are per user. Product is licence only. Must order media pack with licenses.

OTHER ITEMS

FOR HARD DRIVES SEE PAGES 216–229
FOR ANT-VIRUS SOFTWARE SEE PAGES 866, 868, 870

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS 2000, WINDOWS NT

UTILITIES

Executive Software

Executive Software Diskeeper 5.0 is the standard in Network defragmentation. Independent lab tests show defragmenting with Diskeeper produces performance gains that meet or exceed the best hardware upgrades – at a fraction of the cost. Eliminate fragmentation and you eliminate the most primary performance bottleneck on your network. Diskeeper is guaranteed to work safely and reliably with 'Set It and Forget It'™ ease.

£33.41
ONLINE
49-95-42



FEATURES:

- New Schedule and defragment your entire Windows 95/98/2000/NT mixed operating system remotely across the network using Diskeeper Server and Workstation versions.
- New Frag Guard™ prevents fragmentation in your most critical NT system files: The Master File Table (MFT) and paging files.
- 'Set It and Forget It'™ group scheduling of any size with just a few mouse clicks.
- The only defragmentation solution with full network controls.
- The only solution fully compatible with a Windows network.
- Independent lab tested. Automatically restores and maintains system speed and performance.
- Defragments multiple disks automatically while system is in use.
- Directory file consolidation and defragmentation.
- Fully complies with Microsoft® safety features built into Windows NT.
- Flexible scheduling options and five priority settings.
- File defragmentation increases system performance and speed.

Publisher's quoted system requirements:
Diskeeper Server Version 5.0 is required for the scheduling and controlling of Diskeeper Workstation Version 5.0 installed across the network. Diskeeper Server Version 5.0 will install and run on a Windows NT workstation (if the Diskeeper Server Version license has been purchased for that machine) but Windows 95/98 workstations will only accept Diskeeper Workstation Version 5.0.
Workstation:
Diskeeper 5.0 runs on any 486 (including Pentium) or Alpha computer that is runnning Windows NT Workstation version 4.0 or Windows 2000 Professional. Diskeeper 1.09 (also included on this CD) runs on any 486 (including Pentium) or Alpha computer that is running Windows NT Workstation version 3.51. Diskeeper Workstation 5.0 supports Windows 95/98. Note: Diskeeper Workstation cannot be installed on Windows NT Server.
Server:
Diskeeper 5.0 runs on any 486 (including Pentium) or Alpha computer that is running Windows NT Server or Workstation version 4.0 or Windows 2000. Diskeeper 1.09 (also included on this CD) runs on any 486 (including Pentium) or Alpha computer that is running Windows NT Server version 3.51. Diskeeper Server 5.0 controls over-the-network defragmentation of Diskeeper Workstation 5.0 boxes.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Diskeeper 5.0 Workstation **1 user**	WIN 95/98/2K/NT	49-95-42	33.41	34.95	34.60	34.25
Diskeeper 5.0 Workstation **5 user**	WIN 95/98/2K/NT	49-70-72	164.08	◆	169.95	168.25
Diskeeper 5.0 Workstation **10 user**	WIN 95/98/2K/NT	49-23-08	250.97	◆	259.95	257.35
Diskeeper 5.0 Workstation **Upgrade 1 user**	WIN 95/98/2K/NT	49-19-81	24.03	24.95	24.70	24.45
Diskeeper 5.0 Server **1 user**	WIN 95/98/2K/NT	49-49-86	168.91	◆	174.95	173.20
Diskeeper 5.0 Server **5 user**	WIN 95/98/2K/NT	49-12-89	661.43	◆	679.95	673.15
Diskeeper 5.0 Server **10 user**	WIN 95/98/2K/NT	49-08-72	1179.06	◆	◆	1199.95
Diskeeper 5.0 Server **Upgrade 1 user**	WIN 95/98/2K/NT	49-96-30	126.41	◆	129.95	128.65

OTHER ITEMS

FOR UTILITIES SOFTWARE SEE PAGES 860–865
FOR ANTI-VIRUS SOFTWARE SEE PAGES 867–868, 870

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: DOS, WINDOWS 3.X, WINDOWS 95, WINDOWS 98, WINDOWS NT

COMPRESSION



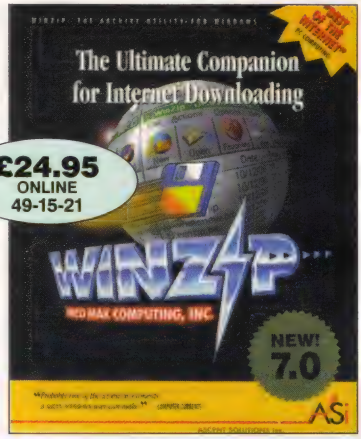
Saving disk space and time are big benefits of compressing data files with **PKZIP** for Windows. PKZIP compresses files an average of 50-70% with many large text and database files compressing well over 90%. You can easily zip up one file or an entire hard drive.

FEATURES:

- Create UUencoded .ZIP files.
- Create self-extracting and standard .ZIP files.
- Run an executable file from within an archive without the need to extract first.
- Extract multi-disk spanned .ZIP or .EXE files.
- Helpful Wizards.
- Integration with Windows 95 & NT Explorer.
- Copy, move delete and rename a .ZIP file from within PKZIP.

Publisher's quoted system requirements:
IBM PC, 1.5MB free hard disk space, 4MB RAM for Windows 3.x, 8MB RAM for Windows 95 and 16MB RAM for Windows NT.

WinZip and PKZip multi-user licensing also available. Please call Action's licensing team free on 08701 63 33 00 for details.



WinZip lets you compress files to free up valuable disk space and safely restores them to their original format. WinZip lets you transfer files faster from sources such as the Internet, and swiftly send file attachments by e-mail.

FEATURES:

- Built-in support TAR, gzip, Unix compress, Uuencode, Xxencode, BinHex, and MIME.
- Create files that unzip themselves.
- Optional WinZip Wizard Interface.
- Works with ARJ, ARC and LZH files.
- Optional Virus scanning support.
- 32 and 16 bit versions included.

Publisher's quoted system requirements:
386 PC or higher. Windows 3.1, Windows 95 and Windows NT. 2MB hard disk space. 4MB RAM. VGA Monitor. Mouse recommended for GUI interface. Optional Internet Browser Support requires Netscape Navigator 3.0 or Internet Explorer 3.0. Optional Virus Scanning Support requires that a support virus scanning program be installed on your system.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
PKWare PKZip 2.7	WIN 95/98/NT	49-32-83	28.63	29.95	29.65	29.35
Nico Mak Computing WinZip 7.x	DOS/WIN 95/98/NT	49-15-21	24.95	29.95	29.65	29.35

OTHER ITEMS
FOR DESIGN SOFTWARE SEE PAGES 826–844

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: DOS, WINDOWS, WINDOWS 95, WINDOWS 98, WINDOWS NT

UTILITIES

SYMANTEC.™

Norton Ghost 5.1 Personal Edition is an essential set of software tools for performing system migration, backup and disaster recovery operations. Quickly and easily migrate files and settings from an existing hard disk to a new or larger hard disk. Back up entire hard disk contents to another media e.g. CD-ROM, ZIP, JAZ, SuperDisk and restore individual files or entire disk as needed. It incorporates robust and flexible technology originally developed for the Norton Ghost Corporation Edition, preferred by more large organisations around the world than any other brand. It includes Guides Ghost Explorer for graphically manipulating disk images and restoring individual files and directories, plus GDISK, a much more robust partitioning tool than FDISK. Norton Ghost Personal Edition can clone PCs running the following operating systems: DOS, Windows 3.x, Windows 95, Windows 98, Windows NT and OS/2.



Migration or cloning options:
- Clone Disk to Disk.
- Clone partition to partition.
- Clone between machines over printer port or NetBIOS connections.
- Create, store and recover disk or partition images on a local drive.

Easily clone drives and partitions:
- From one internal drive to another.
- Via removable media (CD-ROM, ZIP, SuperDisk, etc).
- Through computer-to-computer communications (parallel port or NetBIOS interface).
- Entire images or individual files or directories can be restored at will.

Partition cloning:
- Allows you to clone one or more individual partitions rather than the entire hard drive.
- When cloning, partition size can be automatically adjusted depending on the size of the destination hard disk.

Publisher's quoted system requirements:
Minimum 386 processor (486 or above recommended). 4MB RAM (8MB for NTFS, 16MB recommended). Operating System: DOS 5.0, Windows 3.x, Windows 95, Windows 98, Windows NT and OS/2. VGA monitor. A pointing device is not required, but a Microsoft compatible mouse is recommended. CD-ROM drive.

For multiple licences also check out the Symantec Volume Licence Programme.
See pages 799–800 for details.

NEED MORE THAN 10 LICENCES?
Call 08701 63 33 00 and save £££s

SMLP = SYMANTEC MULTI-LICENCE PACK
An SMLP is a full product plus an additional licence. Available for 5 users.

ALSO AVAILABLE UNDER SYMANTECS VOLUME LICENSING PROGRAMME (MINIMUM 10 USERS). PLEASE CALL ACTIONS LICENSING DESK FOR DETAILS ON
08701 63 33 00

CHECK MEDIA BEFORE YOU BUY

www.action.com/symantec

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Norton Ghost 5.1 Personal Edition	X-Platform	49-28-04	28.63	29.95	29.65	29.35

OTHER ITEMS

FOR HARD DISK DRIVES SEE PAGES 216–229

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS 95, WINDOWS 98

UTILITIES

SYMANTEC.™



Norton SystemWorks™ 2000 gives you five easy-to-use utilities in one fully integrated suite. It features the latest complete versions of award-winning Symantec™ products. Norton Utilities™ is the industry leader in detecting, repairing and preventing hardware and software problems. Norton CleanSweep™ safely and completely removes unneeded programs and files. Norton CrashGuard™ protects your work against system crashes and screen freezes.

Access to Norton Web Services helps you keep your system and applications up to date with the most current software patches, virus definitions and hardware drivers. Also by registering your software and signing up the LiveAdvisor™ service, you'll get product support, LiveUpdate™ alerts, user tips and tricks and upgrade notifications delivered directly to your desktop via the Internet – automatically and customised to your individual preferences.

Publisher's quoted system requirements:
IBM PC or 100% compatible, Intel 80486SX or higher. Windows 95/98 (NOTE: This product will not run under DOS, Windows 3.x or Windows NT). 16MB RAM (32MB recommended), 98MB hard disk space for typical installation, 109MB hard disk space for complete installation. CD-ROM drive (double-speed or faster). 256-colour VGA or better video. Sound card optional. Iomega Zip or Jaz drive optional.

FEATURES:

- **Single installation** – lets you install all five products (or any combination) at one time so you don't have to register each product or reboot after each installation.
- **Integrator** – provides a central 'launch pad' for all applications, allowing you to quickly access five suite products from a single interface.
- **LiveUpdate Integrator** – allows you to launch LiveUpdate for any of the products from one location with a single click.
- **Single Emergency Disk set** – provides emergency recovery utilities from Norton Utilities and emergency virus detection/repair from NAV on a single disk.

ALSO AVAILABLE:
Norton SystemWorks 2000 Professional
Additional features includes Norton 2000 and Norton Ghost. For Norton 2000 and Norton Ghost see pages 863, 870.

NEED MORE THAN10 LICENCES?
Call 08701 63 33 00 and save £££s

CHECK MEDIA BEFORE YOU BUY

www.action.com/symantec

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Norton SystemWorks 2000	WIN 95/98	41-46-37	59.95	64.95	64.30	63.66
Norton SystemWorks 2000 **Upgrade**	WIN 95/98	38-35-59	31.95	35.95	35.59	35.23
Norton SystemWorks 2000 **5 SMLP**	WIN 95/98	96-12-68	278.95	◆	289.95	287.05
Norton SystemWorks 2000 Professional	WIN 95/98	21-95-87	77.95	82.95	82.45	81.95

OTHER ITEMS

FOR UTILITIES SOFTWARE SEE PAGES 860–866
FOR ANTI-VIRUS SOFTWARE SEE PAGES 865–870
FOR SYMANTEC LICENSING SEE PAGES 799, 800

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

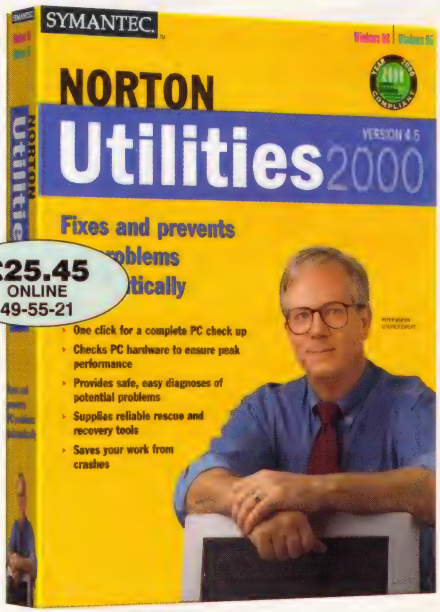
UTILITIES

SYMANTEC.™

Norton Utilities 2000 provides comprehensive solutions to fix and prevent computer problems. It helps you solve even the most complicated PC problems quickly and easily.

FEATURES:

- **Fixes complicated PC problems easily.** Norton Diagnostics, new in Norton Utilities 2000, is a complete Windows-based analyser for your system hardware. It even checks your mouse, keyboard, and printer. Norton System Check™ runs an entire battery of Norton Utilities 2000 tests with a single click-and suggests how to fix any problems it finds. For full-time background protection for your PC, use Norton System Doctor™. It continuously monitors your PC to help keep it problem-free and running at peak efficiency, and can even fix many problems automatically, without interrupting your work.
- **Speeds up your PC's performance.** Speed Disk™ improves system performance by optimising the placement of files on the hard drive. Its new design makes subsequent optimisations even faster. The Norton Optimisation Wizard™ fine tunes your Windows software and uses the Registry Doctor Scan™ to compress the Windows registry better than any other product.
- **Saves your work from crashes.** Includes Norton CrashGuard™, which automatically protects against application crashes and screen freezes. It stops crashes from becoming major disasters by helping you save your open documents and letting you get back to work quickly.
- **Rescues your PC from emergencies.** Norton™ Zip Rescue™ allows you to save rescue information to an Iomega® Zip® or Jaz® drive. It also lets you easily restore missing or corrupt Windows® files. The Rescue Recovery Wizard guides you through the process of restarting and fixing a system that won't boot.



£25.45
ONLINE
49-55-21

Publisher's quoted system requirements:
IBM™ PC or 100% compatible computer. 486 or higher processor. Windows™ 95 or Windows 98. 16MB of RAM (32MB or greater recommended). 70MB of available hard disk space for typical installation. 47MB for compact installation. CD-ROM drive (double-speed or higher). 256 colour VGA or better video. Optional: Iomega® Zip® or Jaz® drive.

For multiple licences also check out the Symantec Volume Licence Programme.
See pages 799, 800 for details.

NEED MORE THAN 10 LICENCES?
Call 08701 63 33 00 and save £££s

CHECK MEDIA BEFORE YOU BUY

www.action.com/symantec

DESCRIPTION	FORMAT	CAT NO 3½"	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Norton Utilities V2.0	WIN NT	37-59-24	—	62.95	68.95	68.26	67.58
Norton Utilities 2000	WIN 95/98	—	12-10-43	31.95	34.95	34.60	34.25
Norton Utilities 2000 **Upgrade**	WIN 95/98	—	49-55-21	25.45	26.99	26.75	26.45

OTHER ITEMS

FOR SYMANTEC LICENSING SEE PAGES 799, 800
FOR TECHNICAL SERVICES SEE PAGES 23–39

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW item on this page

PRODUCTS FOR: DOS, OS/2, WINDOWS, WINDOWS 95, WINDOWS 98, WINDOWS NT

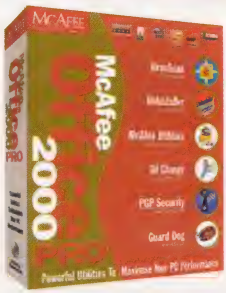
UTILITIES

network associates



McAfee VirusScan 5.0 anti-virus will protect you from all dangers that threaten your computer. VirusScan is designed to automatically detect as-yet-undiscovered viruses with advanced ViruLogic technology improving detection and cleaning of viruses as well as increasing scanning speed. With the unique E-mail X-Ray feature VirusScan catches new viruses in Internet e-mail before messages have been opened. It also features groundbreaking detection from hostile ActiveX and Java attacks on the web. VirusScan is backed by McAfee AVERT Labs, the world's largest anti-virus research group, who work around the clock to find the latest viruses and distribute cures. VirusScan now allows users to automatically back-up important files to a protected area on their hard drive, while the new Quarantine feature allows users to isolate suspicious files. New SecureCast technology makes VirusScan update files smaller and downloads faster, making it easier than ever to keep your protection up to date. VirusScan also includes VirusScan Central, a completely new user interface with a revolutionary new look and feel offering quick access to all VirusScan features.

Publisher's quoted system requirements: 486 or higher CPU, Windows 3.x with 6MB free, Win 95/98 with 17MB free, NT 3.51/4.0 (Workstation only) with 10MB free or DOS/OS/2 with 4MB free HDD space. Modem/Internet access required for Electronic Downloads. CD-ROM drive.



Office 2000 Pro combines McAfee's most powerful tools together in a single, integrated product. Components include McAfee VirusScan – the leader in virus detection and removal, McAfee Utilities – the most powerful system repair tool available, First Aid – the only patented crash protection system in the world, UnInstaller – the fastest and safest way to remove junk from your system, Oil Change – the best way to keep your PC updated, PGP Encryption – the world's leading encryption and security technology and Guard Dog – providing the safest way to surf the Internet.

Publisher's quoted system requirements: 486 or higher CPU. Windows 95/98. 16MB RAM. Certain features require Internet connection. CD-ROM drive. Disk space: McAfee Utilities 30MB, Uninstaller 10MB, Oil Change 6MB, PGP 6MB, VirusScan 17MB, First Aid 65MB, Guard Dog 17MB.



Internet Guard Dog safeguards Internet users from privacy, security and virus threats, along with providing parental controls for managing objectionable material online. Parents can customise Internet filtering and blocking for each user. Internet Guard Dog protects personal information and Web browsing habits from prying eyes. It also includes full anti-virus protection.

Publisher's quoted system requirements: Intel 486 or higher CPU. Windows 95/98. 32MB RAM. 17MB free hard disk space, CD-ROM drive.

Customer's requiring licensing for multiple user require Network Associates Total Solutions Programme. See page 803 for details.

CHECK MEDIA BEFORE YOU BUY

	DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	McAfee VirusScan 5.0	X-Platform	49-40-15	20.45	22.95	22.26	21.59
	McAfee Office 2000 Professional	X-Platform	49-96-16	44.95	50.00	49.50	49.01
NEW	Internet Guard Dog	WIN 95/98	49-60-71	20.45	22.95	22.26	21.59

OTHER ITEMS

FOR NETWORK ASSOCIATES LICENSING SEE PAGE 803
FOR SOFTWARE INDEX SEE PAGES 810–814

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: DOS, WINDOWS, WINDOWS 95, WINDOWS 98, WINDOWS NT

ANTI-VIRUS

network ASSOCIATES

The Vaccine for E-Business

Did you know that the longer a virus lives within your environment the more it costs to eradicate it? Left unchecked, they can take your company down, costing you thousands – if not millions. What if you could stop viruses before they spread? Well, that's precisely what Dr Solomon's Active Virus Defense does. An essential component of your network security strategy, Dr Solomon's protects all virus entry points to keep your e-business up and running.

Virus-free in the e-business hot zone

As you move more of your mission-critical functions to the Internet, points of entry open up, and your networks become more vulnerable to virus and malicious code attacks. There are over 50,000 new viruses known today, with at least 500 discovered each month. And they can cause massive destruction. In fact, in the first half of 1999 alone, viruses were responsible for over $7.6 billion in damage. The good news is, most of these viruses were first detected, and first annihilated, by one team of experts: Dr Solomon's.

First, find the virus

That's the battle cry of the Network Associates AVERT (Anti-Virus Emergency Response Team). With over 90 virus security experts they are the elite force when it comes to virus eradication. Active on six continents, their mission is to identify new viruses and deploy new cures, instantly.

Next, annihilate it

Dr Solomon's has the tools to stop viruses at the earliest stages before they can cause an epidemic. Dr Solomon's AutoImmune automatically creates cures for new viruses, to halt new attacks. Dr Solomon's VirusPatrol scans the underbelly of the Internet for newly-created viruses and creates cures to stop the spread of new ones.



INCORPORATING
DR SOLOMON'S

Customers requiring licensing for multiple users require Network Associates Total Solutions Programme.
Please see page 803 for details.

IMPORTANT: 51+ USERS ARE BOUGHT UNDER THE NETWORK ASSOCIATES LICENSING SCHEME – NOT AS BOXED PRODUCTS. PLEASE CALL ACTION'S LICENSING DESK FOR PRICING DETAILS FREE ON 08701 63 33 00

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	USERS	SUBSC.	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Active Virus Defense	5	1 Year	X-Platform	49-56-26	175.05	➧	179.95	178.15	NEW
Active Virus Defense	10	1 Year	X-Platform	49-96-60	385.17	➧	395.95	391.99	NEW
Active Virus Defense	25	1 Year	X-Platform	49-71-64	968.83	➧	995.95	985.99	NEW

OTHER ITEMS

FOR SOFTWARE PUBLISHER INDEX SEE PAGES 810–814

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW item on this page

PRODUCTS FOR: DOS, WINDOWS, WINDOWS 95, WINDOWS 98, WINDOWS NT

ANTI-VIRUS

network ASSOCIATES
Who's watching your network

£248.98
ONLINE
49-23-92



Dr Solomon's Active Virus Defense comprises:
WebShield – Superior Internet gateway protection
The number one source for virus infections is e-mail. WebShield software guards this highly vulnerable point of entry by scanning all inbound and outbound e-mail and Web traffic passing your corporate Internet gateway. Once a virus is detected, WebShield automatically quarantines the file and sends an alert to your system administrator.
GroupShield – E-mail virus protection for Groupware environments
Groupware and e-mail products are communication lifelines. If just one user on your network accidentally spreads a virus-infected document, the effects can be devastating. To stop these "suspicious candidates," native virus protection at the Notes or Exchange server level is critical. GroupShield for Notes and GroupShield for Exchange use advanced scanning technology to stop outbreaks in their tracks. They deal with the virus before it spreads to other parts of your network.
VirusScan – 50 million desktops protected every day
Trusted by more individual users and large companies alike, VirusScan's multi-platform defense ensures that all viruses, both common and newly discovered, are detected and eradicated. VirusScan e-mail X-ray stops viruses hidden in e-mail attachments before they infect other users.

NetShield – Unmatched server protection
To minimise the threat of virus attack, that's NetShield's objective. NetShield combines advanced virus-scanning technology with server management capabilities. It detects virus-infected files transmitted to and from servers while scanning for viruses that may already exist in other server locations. And once detected, the infected file is cleaned, quarantined, or deleted.
The best defense, at every level.
Dr Solomon's Active Virus Defense is the most effective virus protection. This new scanning engine uses an array of next-generation technologies to keep PCs free from viruses and other malicious code. Active Virus Defense guards systems from infection via floppy disk, Internet download, e-mail attachment, networks, shared files, CD-ROM, online services, and more. VirusLogic, the Dr Solomon's advanced "double" heuristic technology, detects and cleans newly emerging virus threats to provide unmatched protection.
E-Policy Orchestrator: allows administrators to manage and enforce anti-virus policies transparently.
Anti-Virus Informant: detailed coverage reports identify who needs updates while infection reports track your vulnerable entry points.
Enterprise Secure Cast: a free, optional Internet service that automatically updates, and security news bulletins the moment that are released from Dr Solomon's AVERT.
Management Edition: allows complete and centralised control over the VirusScan and NetShield product line.
Auto Update: keeps your anti-virus products running with the latest versions and the most current virus signature files.

INCORPORATING
DR SOLOMON'S

IMPORTANT: 51+ USERS ARE BOUGHT UNDER THE NETWORK ASSOCIATES LICENSING SCHEME – NOT AS BOXED PRODUCTS. PLEASE CALL ACTION'S LICENSING DESK FOR PRICING DETAILS FREE ON 08701 63 33 00

CHECK MEDIA BEFORE YOU BUY

	DESCRIPTION	USERS	SUBSC.	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	Active Virus Defense	5	2 Year	X-Platform	49-23-92	248.98	◗	255.95	253.39
NEW	Active Virus Defense	10	2 Year	X-Platform	49-50-51	501.90	◗	515.95	510.79
NEW	Active Virus Defense	25	2 Year	X-Platform	49-13-46	1263.57	◗	◗	1285.95

OTHER ITEMS

FOR NETWORK ASSOCIATES LICENSING SEE PAGE 803

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: DOS, WINDOWS, WINDOWS 95, WINDOWS 98, WINDOWS NT

HELPDESK

network ASSOCIATES Who's watching your network

Network Associates Help Desk Suite – this award-winning help desk solution offers the perfect blend of power and ease-of-use. McAfee HelpDesk gives mid-range and departmental help desks a robust enterprise-ready product that fits your needs today and grows with you seamlessly into the future.

FEATURES:
- Better call management.
- Expert problem resolution.
- Customization made easy.
- Automated crisis management.
- Managing change.
- Built-in reporting.
- Robust web support.
- Complete HelpDesk Management Solution.

Zero Administration Client Suite – ZAC Suite provides enterprise-wide control of desktop assets. The world-wide standard in network management software, ZAC automates critical functions and keeps your network running smoothly while reducing your costs. With native NT and NetWare support, ZAC is the way to empower administrators with state-of-the-art desktop management and control.

FEATURES:
- Integrated Desktop Lockdown.
- Centralized configuration.
- Hardware/software inventory.
- Software metering.
- Remote control.
- Distribution.



Self ServiceDesk Suite – provides IS organisations with an entire integrated suite of self-service oriented applications designed to make all supported PCs help desk ready. It empowers end-users with the tools they need to solve their own problems.

Total Service Desk
INCLUDES:
- McAfee Help Desk Suite (MHDS).
- Zero Administration Client Suite (ZACS).
- Self ServiceDesk Suite (SSDS).

INCORPORATING DR SOLOMON'S

IMPORTANT: ALL PRODUCTS ARE BOUGHT UNDER THE NETWORK ASSOCIATES LICENSING SCHEME – NOT AS A BOXED PRODUCT. PLEASE CALL ACTION'S LICENSING DESK FOR PRICING DETAILS FREE ON 08701 63 33 00

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	USER BAND	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
NAI Total Service Desk + 2 year subscription*	X-Platform	100-500	46-86-73	CHECK ONLINE	FREE Call	FREE Call	FREE Call	NEW

*Prices are per user.

OTHER ITEMS

FOR NETWORK ASSOCIATES LICENSING SEE PAGE 803

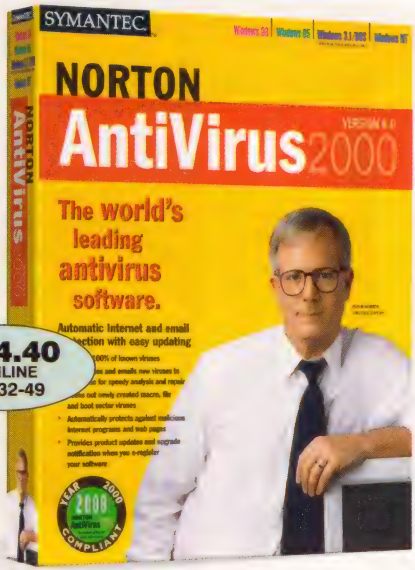
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

ANTI-VIRUS

SYMANTEC.™



£24.40
ONLINE
49-32-49

Norton AntiVirus 2000 is the most powerful product available to safeguard your computer from virus infection no matter what the source. It protects your computer from all viruses, wherever they come from, by automatically detecting and eliminating them from your system before they are able to do any damage. Also, in the event that one of your files does become infected Norton AntiVirus 2000 will repair it immediately.

It lets you quarantine infected files, easily get help with viruses directly form Symantec researchers and it automatically protects you against viruses as well as malicious ActiveX and Java applets. Quarantine an infected file and it's safe to store on your computer without fear of spreading the virus. The Scan and Deliver Wizard makes it easy to send quarantined and other suspicious files to Symantec for evaluation.

FEATURES:

- 24 hour background protection automatically detects and removes viruses and repairs infected files.
- Automatically scans incoming e-mail preventing viruses from entering your system. Detects 100% of 'in-the-wild' viruses.
- Automatically eliminates viruses hidden in multiple compressed files.
- Quarantine an infected file ensuring other files stay clean and viruses are not accidentally sent to anyone else.
- Get expert help quickly by sending a quarantined file to the Symantec AntiVirus Research Center (SARC) who will reply with advice and if necessary virus definitions.

For multiple licences also check out the Symantec Volume Licence Programme.
See pages 799, 800 for details.

NEED MORE THAN 10 LICENCES?
Call 08701 63 33 00 and save £££s

SMLP = SYMANTEC MULTI-LICENCE PACK
An SMLP is a full product plus an additional licence. Available for 5 users.

Publisher's quoted system requirements:
Intel 486/25 or higher (or 100% compatible). For Windows 95 or Windows 98 or Windows NT 4.0 16MB of RAM is required (32MB recommended). 32MB of RAM required for Windows 2000 (64MB recommended). 50MB free disk space required. CD-ROM drive.

CHECK MEDIA BEFORE YOU BUY

www.action.com/symantec

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Symantec Norton AntiVirus 2000	WIN 95/98/NT	49-32-49	24.40	24.95	24.80	24.65
Symantec Norton AntiVirus 2000 **5 user SMLP**	WIN 95/98/NT	36-99-56	110.95	◗	119.95	118.75

OTHER ITEMS

FOR SYMANTEC LICENSING SEE PAGES 799–800

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS 2000, WINDOWS NT

COMMUNICATIONS

SYMANTEC.™

NEW!



NEED MORE THAN 10 LICENCES? Call 08701 63 33 00 and save £££s



WinFax Pro™ is the reliable choice for sending, receiving and managing faxes. Its high-quality faxes help you project a professional image to your clients and customers. It's easy to set up, learn and use. It also integrates with your key business applications to simplify management of client and customer interactions. **Version 10.0** lets you send and forward faxes via e-mail. When image clarity is vital, you also have the option of sending photo-quality faxes. For simplified project management, you can store incoming and outgoing faxes in the folders of your choice.

Publisher's quoted system requirements:
IBM or compatible PC, Windows 95 or NT 3.51 or better, 486SX/25MHz processor minimum installation Windows 95, 486DX2/66 for NT, Pentium strongly recommended in both cases. 8MB RAM minimum installation Windows 95 (16MB or greater recommended), 16MB for NT (32MB recommended), 25MB free hard disk space, VGA video or better, CD-ROM drive, Class 1, 2, 2.0 or CAS-compatible fax modem, compatible fax/voice modem required, sound card recommended for TalkWorks.

Symantec TalkWorks PRO 3.0 brings professional voicemail and fax messaging to home offices and small businesses. It keeps you in touch with all your customers 24 hours a day – without the cost of additional phone lines. Now your small business can sound like a big one – without adding extra phone lines or modems. Versatile messaging capabilities let you set up separate mailboxes for employee voicemail, fax-on-demand, and other purposes – all on a single phone line.

Publisher's quoted system requirements:
Intel Pentium® 166MHz or higher (or compatible) processor. Windows® 95/98/NT 4.0. 32MB of RAM. 100MB of available hard disk space. CD-ROM drive. Windows Sound System or SoundBlaster™ compatible sound card. Compatible voice-capable modem. Class 1, Class 2, or Class 2.0 fax modem; or ISDN device. Caller ID-capable fax modem recommended. Speakerphone-capable fax modem required for speakerphone capability.

SMLP = SYMANTEC MULTI-LICENCE PACK
An SMLP is a full product plus an additional licence. Available for 5 users.

For multiple licences also check out the Symantec Volume Licence Programme.
See pages 799,800 for details.

CHECK MEDIA BEFORE YOU BUY

www.action.com/symantec

DESCRIPTION	FORMAT	CAT NO	Web Price	PRICE EACH (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
WinFax Pro 10.0	WIN 95/98/2K/NT	43-17-61	40.44	41.99	41.57	41.15	NEW
WinFax Pro 10.0 **5 user**	WIN 95/98/2K/NT	43-17-63	172.10	◗	174.95	173.90	NEW
WinFax Pro 10.0 **Version Upgrade**	WIN 95/98/2K/NT	43-30-88	21.18	21.99	21.77	21.55	NEW
WinFax Pro 10.0 **Competitive Upgrade**	WIN 95/98/2K/NT	43-53-44	29.84	30.99	30.68	30.37	NEW
TalkWorks Pro 3.0	WIN 95/98/NT	49-19-54	104.95	◗	120.95	119.74	

OTHER ITEMS

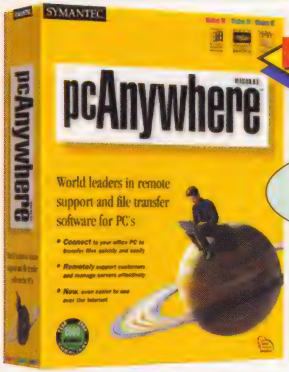
FOR SOFTWARE INDEX SEE PAGES 810–814
FOR SYMANTEC LICENSING SEE PAGES 799, 800

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS 2000, WINDOWS NT

REMOTE COMPUTING AND COMMUNICATIONS

SYMANTEC.™



Symantec pcAnywhere 9.2 for Windows 95/98/2000 and NT 4.0 allows fast, easy access to any PC. If you need to work from home or on the road, pcAnywhere lets you connect to your office PC to transfer files quickly and easily. Its special optimized design ensures the best possible performance at any connection speed. You can also run applications that reside on your office PC or a corporate server.
If you're an IT professional, pcAnywhere lets your remotely support users and manage servers effectively. You can monitor and control remote systems as well as entire networks – all through one clean, consistent interface.

FEATURES:

- Autocolour scale, never send more colours than the remote computer can handle.
- Checkpoint VNP client for firewall security.
- Supports LDAP directory services.
- Built-in security features, password protection, encryption restricted drive access, Norton Antivirus scanning and more.
- Switch between voice and remote control over a single phone call.
- Provides additional disconnect options.
- Network Administrator to install pcAnywhere on client workstations.
- Windows NT user and group authentication.
- Strong encryption.
- Logging events to Windows NT events log.
- LiveUpdate integration.
- Voice first/data switching support.
- ASVD/DSVD modem support.
- Remote host service administration utility.
- Conferencing host.
- Remote printing from Windows NT host.

ALSO AVAILABLE:

PC Anywhere 9.2 Corporate Edition is the most advanced solution for remote access and remote control, and contains the following additional features.

FEATURES:

- Remotely install, configure and modify software.
- Easy location of host PC's on a large network.
- Central logging and auditing.
- Ability to lock down configurations.
- Network based security.
- Integration with Microsoft Management Console, SMS or Tivoli.

Publisher's quoted system requirements:
486sx 25MHz processor or higher. Windows 95, 98, 2000 or Windows NT 4.0. 16MB RAM (20MB recommended). 32MB hard-disk space. CD-ROM drive, double-speed or faster.

PcAnywhere 9.2 Corporate Edition and Media Pack are only available under the Symantec Volume Licence Programme. For details call the Action Licensing desk on **08701 63 33 00.**

CHECK MEDIA BEFORE YOU BUY

www.action.com/symantec

	DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	pcAnywhere 9.2 Host/Remote	WIN 95/98/2K/NT	49-96-34	115.81	➧	119.95	118.75
NEW	pcAnywhere 9.2 Host/Remote **U/G**	WIN95/98/2K/NT	49-39-55	78.17	79.95	79.47	78.99
NEW	pcAnywhere 9.2 Host/Remote **5 user**	WIN 95/98/2K/NT	49-13-35	466.88	➧	479.95	475.15
NEW	pcAnywhere 9.2 Host	WIN95/98/2K/NT	49-71-47	63.51	64.95	64.56	64.17
NEW	pcAnywhere 9.2 Host **Upgrade**	WIN 95/98/2K/NT	49-28-23	47.86	48.95	48.66	48.36
NEW	pcAnywhere 9.2 Host **5 user**	WIN95/98/2K/NT	49-09-11	285.22	➧	289.95	288.21
NEW	pcAnywhere 9.2 Remote	WIN 95/98/2K/NT	49-23-73	75.24	76.95	76.49	76.03
NEW	pcAnywhere 9.2 Remote **Upgrade**	WIN 95/98/2K/NT	49-37-22	56.66	57.95	57.60	57.26
NEW	pcAnywhere 9.2 Remote **5 user**	WIN95/98/2K/NT	49-50-36	334.40	➧	339.95	337.91

OTHER ITEMS
FOR MODEMS SEE PAGES 750, 751
FOR TECHNICAL SERVES SEE PAGES 23–39

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT, LINUX

INTERNET SECURITY

SYMANTEC.™



Symantec I-Gear is a server-based Internet Content Management solution that enables comprehensive, flexible control and monitoring of web access. With per-user Internet access permissions that can be scheduled by date and time of day or by location, you can control who has Internet access and when, thus relieving network bandwidth issues and improving employee productivity.

FEATURES:

- Extensive predefined Content Category Lists and unlimited locally defined lists.
- Customisable access permissions for users, client computers and groups.
- Flexible detailed reporting on user, client and group activity.
- Optional user-transparent auditing of Internet usage.
- Web-base remote administration from any client computer.
- Nightly automatic lists and dictionary updates.
- Automatic e-mail notification to designated recipients of user policy violations.

Publisher's quoted system requirements:
Pentium® or compatible processor. Microsoft Windows NT Server 4.0 with Service Pack 3 or later installed. 64MB RAM. 25MB available disk space for software, plus 200MB (>1GB recommended) for cached data. Internet access and World Wide Web Browser (suitable browsers include Netscape Navigator 2.0 or later, or Microsoft Internet Explorer 3.0 or later). CD-ROM Drive.



Symantec Norton Internet Security 2000 helps you take control over your Internet experience. With new viruses created everyday, malicious code, increasing numbers of hackers and web sites designed to track your personal information, Norton Internet Security 2000 offers a solution to protect your online security and privacy.

FEATURES:

- Eliminates viruses, including file, macro and complex polymorphic viruses.
- Guards your computer files and your personal information against unauthorised access.
- Protects children from inappropriate sites: user profiles allow you to set the level of Internet access.
- One year free updates on the Interent with new viruses, threats and inappropriate sites appearing every day.
- Speeds web surfacing by blocking banner ads, Java script/Visual Basic script and pop-up windows.

Publisher's quoted system requirements:
Pentium® class or higher processor. Windows® 95, Windows 98, Windows 98 SE. 24MB or RAM required (32MB recommended). 60MB free disk space. CD-ROM drive. Microsoft Windows Internet support.

CHECK MEDIA BEFORE YOU BUY

www.action.com/symantec

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Symantec I-Gear	WIN NT, Linux	52-77-04	1770.99	➧	➧	1774.49
Symantec I-Gear for MS Proxy	WIN NT, Linux	52-78-19	1768.95	➧	➧	1773.95
Symantec I-Gear for Check Point FireWall	WIN NT, Linux	52-82-37	1769.95	➧	➧	1774.49
Symantec I-Gear 50 user licence add on	WIN NT, Linux	52-15-24	199.49	➧	203.95	202.95
Symantec Norton Internet Security 2000 1.0	WIN 95/98	49-62-65	35.49	36.90	36.60	36.40

OTHER ITEMS

FOR SYMANTEC LICENSING SEE PAGES 799, 800

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
»» Save £££'s!
»» Check live stock
»» Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

COMMUNICATIONS/TERMINAL EMULATION

SYMANTEC.™



Procomm Plus 32 combines effortless remote control, comprehensive faxing capabilities, flexible data terminal emulation, and more ways to transfer files than any other software. As an extra bonus, Procomm Plus includes the tools you need to tap the Internet, including Microsoft Internet Explorer, Internet e-mail, News Reader, FTP and Telnet. Internet configuration tools also let you create your own account automatically, or use your existing Internet Service Provider account.

FEATURES:

Remote Control

- Fast screen refresh - Advanced video technology saves you time and money.
- Vast connection support - Whether you use a modem, a serial cable, NetWare SPX or TCP/IP networks, you're fully supported.
- Minimal connection time - High-speed file transfers free you up to do other things.
- Safeguard your PC with a full range of security features such as encryption and password protection.

Fax

- Stop re-typing - Integrated optical character recognition (OCR) technology converts fax data into characters you can import into your word processor and edit just like any other text.
- Flexible viewing - Easily zoom and rotate faxes, even those received upside-down.
- Save money on phone bills by scheduling transmissions after hours.
- Design your own dazzling cover sheets or use one of the templates provided.
- Support for multiple fax modems maximises productivity and minimises downtime.
- Broadcast faxes - Send almost any document from a Windows application to a group of recipients.

Data Terminal

- Get connected - You get full support for 36 of the most popular asynchronous video display terminals.
- Intranet connection - Use the industry's most versatile Telnet client to get quick access to a wide range of corporate hosts and online systems.
- Easily customise screen colours, change fonts or remap your keyboard to match the host system.

Scripting

- Supports custom interface and communication application design. Intelligent Script Recorder automates logons by recording system prompts and responses, generating an ASPECT script to use in future sessions.

For multiple licences also check out the Symantec Volume Licence Programme.
See pages 799 and 800 for details.

SMLP = SYMANTEC MULTI-LICENCE PACK
An SMLP is a full product plus an additional licence. Available for 5 users.

NEED MORE THAN 10 LICENCES?
Call 08701 63 33 00 and save £££s

Publisher's quoted system requirements:
PC running Windows 95/98 or NT 4.0. VGA or better video display. CD-ROM drive for installation. 8MB RAM for Windows 95/98 (16MB RAM recommended). 16MB RAM for Windows NT 4.0 (32MB RAM recommended). 45MB disk space for full installation. Supports: TAPI-compliant modems (14,400 bps or better recommended); direct serial connections; Winsock 1.1 compliant dial-up or network TCP/IP.

CHECK MEDIA BEFORE YOU BUY

www.action.com/symantec

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Procomm Plus 32 4.7	WIN 95/98/NT	37-96-52	62.99	64.89	64.49	64.19

OTHER ITEMS
FOR MODEMS SEE PAGES 750–751
FOR SYMANTEC LICENSING SEE PAGES 799, 800

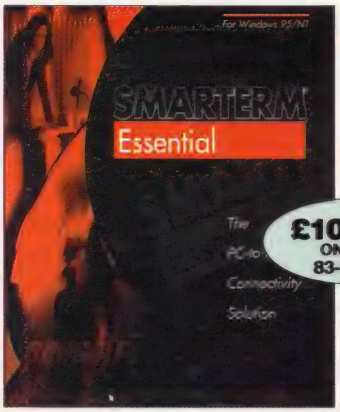
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
>> Save £££'s!
>> Check live stock
>> Track order status

PRODUCTS FOR: WINDOWS 3.x, WINDOWS 95, WINDOWS NT

TERMINAL EMULATION

persoft

The **SmarTerm** product line, a Windows-based PC-to-Host connectivity solution, provides multilingual access to business critical information through the use of advanced customisation and producitivity tools on the desktop. SmarTerm's multi-host capabilities allow access to IBM mainframes, Digital, UNIX and Data General hosts, as well as AS/400s and PC X Clients.



£106.15
ONLINE
83-35-14

Publisher's quoted system requirements:
320KB RAM, IBM, PC or compatible. Windows 3.x or higher in standard configuration or Windows 95 for 32-bit editions of SmarTerm

Connectivity	SmarTerm Office	SmarTerm Essential
Windows 95/NT (32-bit)	**Version 9.0**	**Version 9.0**
PC X Server		
Netscape Navigator	✶	
SNA 4.0	✶	✶
IBM 5250	✶	■1
IBM 3270	✶	■2
Digital VT420	✶	■3
Digital VT340	✶	
Wyse 50/60	✶	✶
SCO ANSI/ANSI	✶	✶
DG 470C	✶	

■ **Users can choose one type during installation.**

FREE EVALUATION COPIES ARE AVAILABLE – PLEASE ASK FOR DETAILS

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
32-bit SmarTerm Office V9 – **single user**	WIN 95/NT	83-35-07	165.32	➧	169.95	168.25
32-bit SmarTerm Essential V9 – **single user**	WIN 95/NT	83-35-14	106.15	➧	109.95	108.85
32-bit SmarTerm Essential V9 – **10 single user pack**	WIN/95/NT	87-89-95	946.12	➧	979.95	970.15
32-bit SmarTerm Essential V9 – **25 single user pack**	WIN/95/NT	87-90-04	2265.63	➧	➧	2299.95

OTHER ITEMS

FOR COMMUNICATION SOFTWARE SEE PAGES 871–878
FOR PERSOFT LICENSING SEE PAGE 804

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
»Save £££'s!
»Check live stock
»Track order status

Lower prices on-line at action.com

PRODUCTS FOR: DOS, WINDOWS, WINDOWS 95, WINDOWS NT

TERMINAL EMULATION SOFTWARE

WRQ



Reflection for UNIX & Digital & Regis Graphics for Windows and Reflection X are terminal emulation packages from **Walker Richer and Quinn**. All products offer multi-session VT terminal emulation for VAX/VMS and UNIX with low memory requirements.
All products feature a command language to automate repetitive tasks.
Reflection for Regis Graphics – This series of products are VT340 16-colour ReGIS colour graphic emulators, allowing you to use applications such as DECgraph and vivid. Mouse support is included.
Reflection X Connectivity Suite – Delivers complete Windows-to-UNIX integration and takes full advantage of 32-bit architecture delivering faster memory access and improved performance. Reflection X is fully integrated with Microsoft Windows so X applications become as simple to use as PC-based Windows applications.

Publisher's system requirements:
Reflection 2 Plus – DOS: 286 processor or higher, DOS 3.1 or higher, 1MB RAM, hard drive, VGA/EGA or higher display.
Additionally, Reflection UNIX & Digital for Windows requires Windows 3.0 or higher.
Reflection X: 386 processor or higher, DOS 3.1 or higher, Windows 3.1 or higher, 4MB of free memory.
Additionally, Reflection Regis Graphics for Windows requires Windows 3.0 or higher.
Reflection for UNIX and Regis requires min 4MB memory, video adaptor, Windows 95 or NT4.

Reflection PRODUCT	Reflection Suite for X	Regis Graphics WINDOWS	Reflection for Digital/UNIX	Reflection for Regis
TERMINAL EMULATION TYPES				
VT320, VT220, VT102, VT52, VT420	●	●	●	●
VT: 240, 241, 330, 340, Colour Graphics		●		●
SCO ANSI, BBS ANSI		●	●	●
FILE TRANSFER				
Keyboard Mapping/FTP Support	●	●	●	●
Wild card file transfer	●	●	●	●
VAX file attributes	●	●	●	●
SYSTEM MANAGEMENT				
State Save	●	●	●	●
Command Language Debugging	●	●	●	●
WINDOWS				
Windows Support	●	●	●	●
Rescalable fonts and windows	●	●	●	●
DDE Support	●	●	●	●

MULTI-USER LICENSES AVAILABLE – CALL 08701 63 33 00

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO 3½"	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Reflection Suite for X	WIN 3.x	35-04-51	—	359.88	▶	369.95	366.25
Reflection for UNIX + Digital	WIN 9x/2K/NT	—	88-47-52	194.50	▶	199.95	197.95
Reflection for Regis graphics	WIN 95/NT	—	88-47-69	277.19	▶	284.95	282.10

OTHER ITEMS
FOR COMMUNICATION SOFTWARE SEE PAGES 871, 872, 874, 878, 887

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS, WINDOWS 95, WINDOWS 98, WINDOWS NT

TERMINAL EMULATION



Hummingbird Exceed V6.2x

The World's Best Selling PC X Server.

- Ease of use.
- Full support of X11R6.3.
- WebNFS connection set up support.
- Includes HostExplorer Terminal Emulation.
- Java remote configuration.
- Exceed 3D – Support for openGL.

	Windows 3.x	Windows 95	Windows NT
TN 3270E/ TN3270	•	•	•
VT 420, 320, 220, 100	•	•	•
SCO-ANSI/ Wyse 50/60	•	•	•
Site set-up tool	•	•	•
Romote Config. Tool	•	•	•
HLLAPI/LU1/ LU3	•	•	•
PCPRINT	•	•	•

ALL 5 & 10 PACKS INCLUDE 1 YEAR FREE UPGRADES. FOR EXTRA USER LICENCES CALL 08701 63 33 00.



Hummingbird HostExplorer

The fastest desktop connection to enterprise hosts, including IBM mainframe, AS/400 and UNIX systems.
Industry First: HostExplorer host sessions can be started from Windows Explorer.



NFS Maestro:

The Standard in Enterprise Connectivity NFS Maestro provides great performance and functionality enhancements found in no other similar solution.

- 32-bit Multithreaded Kernel mode.
- WebNFS connection set up support.
- NFS over TCP/IP and UDP/IP.
- NFS Version 2.0 & 3.0.
- Configurable File Locking (compatible with major competitive locking mechanisms).
- Jconfig and Sconfig support.

Publisher's quoted system requirements for all products:
IBM compatible x86, 486 or Pentium-based PC, or Alpha platforms. Microsoft Windows NT 3.51 or 4.0 & higher, Windows 95 or Windows 3.1x operating systems. Minimum of: 8MB memory for Windows 95, 12MB for NT and 4MB for Windows. Hard disk for storing software minimum 20MB. CD-ROM drive for installation. TCP/IP transport support.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Exceed 6.2x	WIN 3.x/WIN 98/NT	67-95-58	350.15	➧	359.95	356.35
Exceed 6.x **(5 pack)**	WIN 3.x/WIN 95/NT	67-95-65	1572.10	➧	➧	1599.95
Exceed 6.x **(10 pack)**	WIN 3.x/WIN 95/NT	67-95-72	3084.47	➧	➧	3099.95
Host Explorer	WIN 3.x/WIN 95/NT	67-95-89	175.05	➧	179.95	178.15
Host Explorer **(5 pack)**	WIN 3.x/WIN 95/NT	67-95-96	817.08	➧	839.95	831.55
Host Explorer **(10 pack)**	WIN 3.x/WIN 95/NT	67-96-06	1522.97	➧	➧	1549.95
NFS Maestro	WIN 3.x/WIN 95/NT	68-68-71	223.69	➧	229.95	227.65
NFS Maestro **(5 pack)**	WIN 3.x/WIN 95/NT	68-68-88	1120.11	➧	➧	1139.95
NFS Maestro **(10 pack)**	WIN 3.x/WIN 95/NT	68-68-95	2143.79	➧	➧	2159.95

OTHER ITEMS

FOR COMMUNICATION SOFTWARE SEE PAGES 871–878

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS 3.1, WINDOWS 95, WINDOWS 98, WINDOWS NT, WINDOWS 2000

COMMUNICATIONS

LapLink .com



LapLink 2000 gives you quick, easy access to your desktop PC or network resources when you're working away from the office. Access and transfer files, synchronise data, run desktop applications, read and send e-mail, even support remote users – all with one application. With LapLink 2000, you get the freedom and power to easily access and control another PC, no matter where, when or how you work.

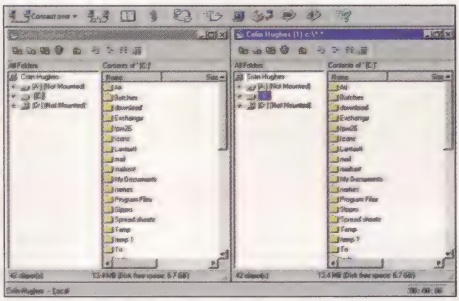
FEATURES:

- Industry's broadest menu of connectivity options, ensures a seamless fit into your working environment.
- Use over modems, cables (parallel, serial and LapLink USB), Dial-Up Networking, TCP/IP and IPX networks, even wireless (including Fast Infrared).

CHECK MEDIA BEFORE YOU BUY

- Eliminate long-distance telephone charges and the need for multiple phone lines by using the Internet. And, you can talk real-time with other users using voice chat.
- Administer a network remotely, simplify training and expedite problem resolution by talking to users at the same time you're remotely controlling their computer over one phone line.
- Includes a full range of connectivity options, a multi-level, multi-function security system and cross-platform compatibility.
- Powerful security options like multi-level triple DES encryption (including Microsoft's Crypto API), lockout protection and folder-level security ensure your data is safe.
- Parallel and serial cables included. Serial is essential to transfer files locally when using Windows 2000 and NT 4.0.
- Support for Windows 2000, 98/95/3.1 and NT 4.0 makes working across mixed computing environments seamless.
- LapLink FTP is included – expand your file transfer capabilities to moving files to/from a remote server and your local PC.

Publisher's quoted system requirements:
Microsoft Windows 98, 95 3.1, 2000 or NT 4.0. Intel or compatible 486DX 100MHz. 16MB RAM. 15MB of hard disk space. VGA compatible monitor. Sound card, speakers, microphone for voice chat.



DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
LapLink 2000	WIN 3.1/95/98/NT/2000	49-18-90	101.33	➧	104.95	103.90
LapLink Enterprise Exchange Accelerator	WIN 95/98/NT	49-95-89	511.65	➧	529.95	524.65

OTHER ITEMS

FOR CD WRITERS/REWRITERS SEE PAGE 255
FOR MODEMS SEE PAGE 753

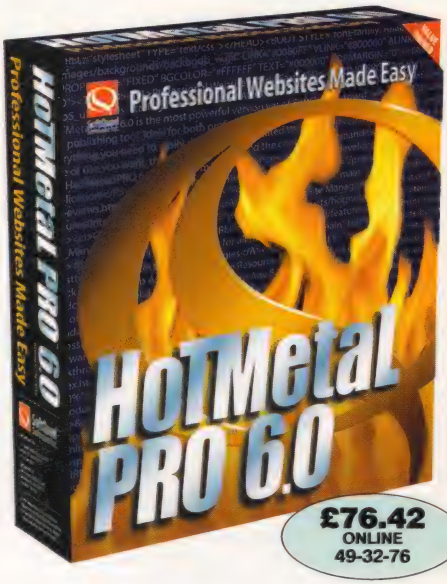
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

INTERNET PUBLISHING

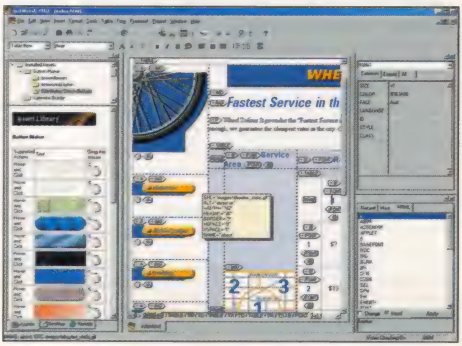
SoftQuad

Powerful, customisable and extensible, **SoftQuad HotMetal PRO 6.0** gives professional developers the advanced capabilities and productivity tools needed to quickly create sophisticated sites. With full support for the hottest Web technologies and unrivalled editing, site management and publishing tools, HotMetal PRO 6.0 is the ultimate Web development environment.



FEATURES:

- Import pages created in another editor without making any changes.
- The Attribute Inspector is now available in all editing views.
- Interactive validator now provides a log of all errors and allows users to review changes before they are made.
- Enhanced FTP capabilities provide more support for proxy servers, firewalls and binary/ASCII transfers.
- Using a site mapping table, developers now have drag and drop remote file editing capabilities.
- Asset Manager provides drag-and-drop access to a variety of asset types, including images, multimedia files, applets and scripts.
- Includes more tools and pre-built effects, like a dynamic button maker and the Color Chooser.
- COM interface advanced scripting capabilities allows developers to deploy custom components that work in any production environment.
- Macro toolbar and macro recorder makes it easier to automate repetitive tasks.
- Over 8000 images in the Asset Library.
- WS-FTP Pro 6.02 full version in the box.
- HTML and JavaScript Self-Study Training Tools.
- Netscape Communicator 4.61.
- Microsoft Internet Explorer 5.0.



Publisher's quoted system requirements:
Pentium compatible processor. Microsoft Windows 95/98/NT 4.0 with Service Pack 3 or higher. 32MB of RAM, 50MB available hard disk space. 256 colour/SVGA display, 640 × 480 resolution or higher. CD-ROM drive for installation.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CD-ROM CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
HoTMetaL PRO 6.0	WIN 95/98/NT	49-32-76	76.42	79.95	79.15	78.36

OTHER ITEMS

FOR WEB PUBLISHING SEE PAGES 880–883

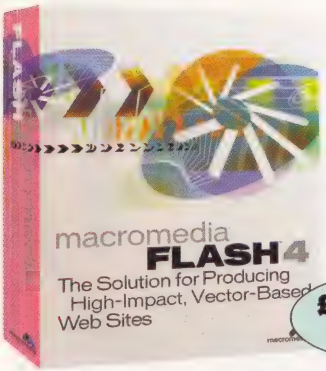
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

IMAGE EDITING & GRAPHICS

macromedia

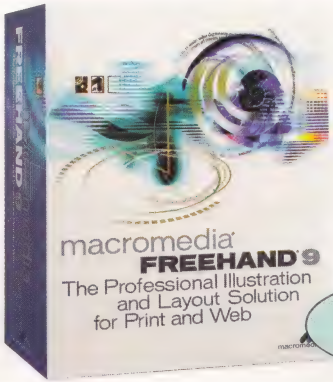


Flash 4 is the solution for producing and delivering high-impact Web sites. Web developers use Flash to create beautiful, resizable, and extremely small and compact navigation interfaces, technical illustrations, long-form animations, and other dazzling effects for Web sites and other Web-enabled devices (such as WebTV). Additionally, Flash 4 is easy to learn for Web developers for all skill levels. Flash graphics and animations are created using the drawing tools in Flash or by importing artwork from your favourite vector illustration tool, such as Macromedia FreeHand.

FEATURES:

- Use natural, vector-based drawing tools for sketching or precision drawing.
- Erase, brush, and lasso the Bézier curves of art imported from your favourite illustration program, like Macromedia FreeHand.
- Sprite animation makes it much easier to create applications like animated buttons, hierarchical and pop-up menus, checkboxes, and puzzle games.
- Stretch, skew, rotate, erase, paint, tint, and brighten imported bitmaps, and break them apart to use as editable fills.
- Integrate any TrueType font or typeface, from your favourite font program, like Macromedia Fontographer.

Publisher's quoted system requirements:
133MHz Pentium Processor. Windows 95, Windows 98 or Windows NT or later. 32MB RAM. 20MB available hard disk space. 256 colour monitor capable or 800 × 600 resolution. CD-ROM.



FreeHand 9.0 is the tool of choice for designers creating and producing illustrations and layouts for print and the Web. FreeHand's uses range from commercial line art illustrations and newspaper infographics to mixed media pieces that combine line art with bitmapped images and typography, as well as graphic element, interfaces, and animations for the Internet.

FEATURES:

- Design once and publish anywhere.
- PostScript and multipage PDF output.
- Professional printing and document exchange.
- Save as HTML instantly turns your designs into Web pages.
- Symbol library, multiple pages and improved page management.
- Work seamlessly with the entire Macromedia Web Publishing family.
- Breakthrough creative effects like enhanced enveloping, perspective grids and transparency.
- Export optimised GIF, JPEG, PNG and other Web formats.
- Publish and integrate with Flash, in addition to HTML and bitmap graphics.

Publisher's quoted system requirements:
120MHz Pentium processor or higher. Windows 95, 98 or NT 4 (with Service Pack 3). 64MB RAM. 50MB disk space (70MB or higher recommended). CD-ROM drive. 600 × 800 colour monitor. Postscript printer recommended.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Macromedia FreeHand 9.0	WIN 95/NT	41-41-58	290.99	➧	298.75	298.49
Macromedia Flash 4.0	WIN 95/98/NT	49-39-12	189.95	➧	199.99	199.49
Macromedia Flash Freehand Studio	WIN 95/98/NT	49-19-77	112.19	➧	113.95	113.49

OTHER ITEMS

FOR DTP SEE PAGES 836, 838, 839, 841, 842

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS 2000, WINDOWS NT

INTERNET PUBLISHING/GRAPHICS

macromedia



Macromedia Dreamweaver 3 is the choice of professionals to develop Web sites, automate production, and enhance team efficiency. Control your code with Roundtrip HTML and the revolutionary QuickTag Editor, and accelerate workflow with integration with Web applications, Microsoft Office and leading e-commerce and application servers. Only Dreamweaver can be customised using HTML, JavaScript and XML, giving you the power you need for rapid Web development.

FEATURES:

- Clean up Word HTML strips out irrelevant XML and styles, removes proprietary tags, and formats the code the way you want it.
- Native Macintosh codebase provides support for Navigation Services, rendering images through QuickTime, and a host of other performance enhancements.
- Roundtrip Server Markup includes expanding the third-party tag model to recognises ASP, JSP, CFML, PHP and more.

Publisher's quoted system requirements:
Windows 95/98 or NT version 4.0 or later. Intel Pentium processor or equivalent, 120+MHz. 32MB RAM. 20MB of available hard disk space. 256-colour monitor capable of 800 × 600 resolution. CD-ROM drive.

Macromedia Fireworks 3 brings efficiency to Web graphics production. Quickly create buttons animations, and page comps.



Dreamweaver UltraDev is the first authoring software that allows developers, programmers and designers to visually create and edit data-driven Web applications on multiple server platforms.Using Dreamweaver UltraDev, e-businesses can accelerate delivery of projects ranging from dynamically generated pages and forms, to enterprise class solutions such as e-commerce stores, inventory management systems and database applications for intranets. Dreamweaver UltraDev generates applications that take advantage of Microsoft Active Server Pages (ASP), Sun Microsystems JavaServer Pages (JSP) and Allaire ColdFusion Markup Language (CFML) technologies to connect to industry standard servers, making it ideally suited to today's heterogeneous development landscapes.

FEATURES:

- Build ASP, JSP and Cold Fusion sites in one single development environment.
- View and edit server-side data in the workspace and make edits on the fly.
- Maximise productivity with a library of server behaviours that help you easily create pages that display, navigate and update database content.

Publisher's quoted system requirements:
Pentium 120MHz or greater CPU, Windows 95/98/2K or NT Version 4.0 or later. 48MB available RAM. 30MB available disk space. 256-colour 800 × 600 resolution monitor. CD-ROM drive.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Macromedia Dreamweaver UltraDev	WIN 95/98/2K/NT	49-23-90	379.33	➧	389.95	386.05	NEW
Macromedia Dreamweaver 3 and Fireworks 3 Studio	WIN 95/98/NT	49-39-44	287.95	➧	298.95	295.96	
Macromedia Dreamweaver 3	WIN 95/98/NT	49-13-22	225.49	➧	229.95	228.95	
Macromedia Fireworks 3	WIN 95/98/NT	49-09-03	135.89	➧	137.95	137.49	

OTHER ITEMS

FOR DTP SEE PAGES 836, 838, 839, 841, 842

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

INTERNET PUBLISHING

NETobjects macromedia



NetObjects Fusion 5.0 enables users to create, manage, and update an e-business site quickly and effectively. It provides not only comprehensive site management and development capabilities, but also an easy way to add e-commerce functionality and dynamic database access to your Web site.

FEATURES:

- SiteStructure Editor – plan and update your Web site quickly with drag-and-drop Editor.
- WYSIWYG Layout Editor – gives you four options for placing graphics, text, multimedia, and other elements.
- Dynamic Database Access – incorporate company databases using components that dynamically connect to application servers.
- E-commerce – NetObjects Fusion Components let you build business Web sites that work with turnkey e-commerce systems.
- DHTML Actions – add Dynamic HTML-based animation and interactive effects.

Publisher's quoted system requirements:
90-MHz or faster Pentium PC. Windows 95, 98 or Windows NT 4.0. Installation: 50MB of available hard disk space (100MB for full installation); after installation: 60MB. 32MB of RAM. 32-bit OBDC drivers for external database connectivity. TCP/IP compliance for Internet connectivity. Display cable of 800 × 600 pixels at 256 colours or more. CD-ROM drive. Mouse or compatible pointing device. Web browser: Netscape Navigator 2.01 or later, Microsoft Internet Explorer 2.1 or later, or another browser compatible with HTML 3.0 or later.



Director 8 Shockwave Studio is the most powerful multimedia authoring solution available to professional designers today. This robust software improves on an already high level of programming quality, based on user guidance.
Reach more people through magnetic "desination content" such as interactive product demos, presentations and connected community applications easily accessed by the widely distributed Shockwave Player.

FEATURES:

- The library palette speeds programming by providing a central location for the most frequently used behaviours and assets.
- Import high-quality graphics with alpha channels, then control to create real-time animation and effects that provide truly compelling content.
- Full 360° rotation, horizontal/vertical flipping and scalable skewing add real-time animation to your movies.
- Edit all media types, including movie, stage, bitmaps, sounds, QuickTime, vector shapes, Flash (SWF files) and behaviours.
- Store comments or other data relevant to authors, enabling easier management of media that is undergoing production.

Publisher's quoted system requirements:
200MHz Intel Pentium II processor. Windows 95, NT 4 or later. 32MB or more RAM. 100MB available hard disk space. 256 colour monitor with 600 × 800 resolution. CD-ROM drive. Windows compatible sound card.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NetObjects Fusion 5.0	WIN 95/98/NT	47-31-10	181.49	◗	184.00	183.55
NetObjects TeamFusion 1.0 Server & 5 clients	WIN 95/NT	41-87-33	1189.99	◗	◗	1199.99
Director 8 Shockwave Studio	WIN 95/98/NT	47-46-34	844.90	◗	849.90	848.90

OTHER ITEMS

FOR DTP SEE PAGES 836, 838, 839, 841, 842

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

WEB AUTHORING & MANAGEMENT

Microsoft

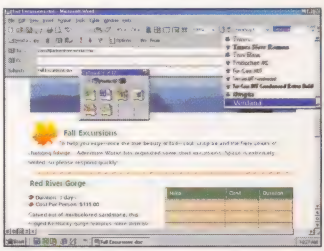
The **Microsoft FrontPage 2000** Web site creation and management tool gives you everything you need to create and manage exactly the site you want, whether you're creating a personal Web page or a corporate Internet or intranet site. And because it works like Microsoft Office, FrontPage 2000 is easy to learn and use.

£38.22
ONLINE
52-70-22



FEATURES:

- Multiple views allow you to see all the files in your Web, run reports to find slow pages and older files, set up your site's navigational structure, and keep track of Web tasks.
- Create exactly the site you want with Themes, Dynamic HTML, and enhanced colour tools.
- Author in your favourite environment with Better-Than-Notepad HTML editing features.
- Easily manage and update your Internet or team intranet sites.
- Save time using familiar Office tools and Office integration features.
- Quickly add What You See Is What You Get (WYSIWYG) tables and hyperlinks, graphics, thumbnail images, frames, search forms, hit counters, and numbered or bulleted lists.
- Dynamic HTML (DHTML) animation effects bring movement and interest to your pages and work seamlessly with Netscape Navigator 4.0 and later Microsoft Internet Explorer 4.0 and later.
- Easily apply colours from pre-set Web-safe colours, or 'pick up' an existing colour using the Color Picker.
- Place graphics and text exactly where you want them with Pixel Precise Positioning and Layering.
- Microsoft Visual Basic® for Applications 6.0 allows you to build powerful FrontPage-based solutions that work across Microsoft Office applications.



Publisher's quoted system requirements:
75MHz Pentium or higher processor, Microsoft Windows 95, Windows 98 or Windows NT Workstation 4.0 with Service pack 3 or later. 24MB RAM for Windows 95/98. For Windows NT Workstation 4.0 40MB of RAM. 167MB available hard disk space for typical installation, but will vary depending on configuration. CD-ROM drive. VGA or higher resolution monitor; Super VGA recommended. MS Mouse, IntelliMouse®, or compatible pointing device.

Customers now only require 5 licenses to participate in Microsoft's new open 5.0 licensing programme call 08701 633 300 for more details.

Microsoft Certified Solution Provider Partner

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
FrontPage 2000	WIN 95/98/NT	52-17-17	87.99	88.95	88.92	88.79
FrontPage 2000 **Comp/Ver Upgrade**	WIN 95/98/NT	52-70-22	38.22	38.95	38.89	38.79
Running FrontPage 2000	MANUAL	38-29-88	28.45	29.29	29.15	29.03

OTHER ITEMS

FOR MICROSOFT LICENSING SEE PAGES 792–795
FOR TECHNICAL SERVICES SEE PAGES 23–29

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS 3.x, WINDOWS 95, WINDOWS 98, WINDOWS NT

PROJECT MANAGEMENT

Microsoft®

£294.21
ONLINE
33-36-29



Microsoft® Project 4.0 project planning software for Microsoft Windows helps you quickly and easily put together project plans, communicate them to others and manage changes as they occur. Regardless of your project planning experience, Microsoft version 4.0 for Windows helps you get started quickly. Those familiar with Microsoft Office programs will find that they work alike, so once you're familiar with them, you're well on your way to knowing Microsoft Project.
If you're a new user, Cue Cards give you step-by-step instructions that stay on-screen while you're creating your plans. If you're an experienced project manager, you'll find powerful scheduling features to help manage every stage of any kind of project – from planning a special event to developing and marketing a new product.

Publisher's quoted system requirements:
Processor 386 or higher. Memory 4MB (8MB recommended). Hard disk: 14MB typical, 10MB minimum, 18MB complete. 3.5" floppy. MS DOS V3 or higher. Windows 3.1 or later.

Customers now only require 5 licenses to participate in Microsoft's new open 5.0 licensing programme call 08701 633 300 for more details.

£298.89
ONLINE
38-47-88



Microsoft Project 98 puts you in control of even the most complex projects, helping you share information easily with team members so everyone stays involved. Effective project management is at the core of every successful business. Whether you're overseeing simple, short-term projects or managing complex multi-project schedues you can stay in complete control with Microsoft Project 98. Control your projects with confidence – with the flexible new scheduling engine, you can plan and track your projects more effectively and identify and respond to conflicts before they happen. Communicate your plans with ease – includes rich presentation features, with the ability to publish information to the intranet and internet, plus workgroup features that let you communicate with team members via e-mail or the web.

Publisher's quoted system requirements:
486 or higher processor. Windows 95 or later, Windows NT Workstation version 3.51 Service Pack 5 or later, or NT Workstation 4.0 Service Pack 2 or later. 12MB of memory for use on Windows 95; 16MB for Windows NT Workstation. 20-40MB of available hard-disk space required; 30MB required for typical installation, depending upon configuration. CD-ROM drive.

Microsoft Certified Solution Provider Partner

www.action.com/microsoft

DESCRIPTION	MEDIA INCLUDED	FORMAT	CAT NO CD	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
REPLACEMENT DISK: CALL MICROSOFT CONNECTION ON 0345 002 000							
MS Project 4.0	YES	WIN 3.x	33-36-29	294.21	▶	296.95	295.17
Microsoft Project 98	—	WIN 95/98/NT	38-47-88	298.89	▶	299.95	299.65
Microsoft Project 98 **Version Upgrade**	—	WIN 95/98/NT	38-47-95	119.53	▶	119.95	119.83
Microsoft Project 98 **1 MLP**	—	WIN 95/98/NT	41-53-10	277.29	▶	279.95	279.49

OTHER ITEMS

FOR MICROSOFT LICENSING SEE PAGES 793–795
FOR UPGRADES SEE PAGES 815–818

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶ Save £££'s!
▶▶ Check live stock
▶▶ Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS 2000, WINDOWS NT

PROJECT MANAGEMENT

Microsoft

Introducing **Microsoft® Project 2000®** and **Microsoft Project Central®**, the next generation in project management software. With enhanced flexibility and internet capability, Project 2000 and Project Central help teams work together more effectively and communicate project information across entire organisations.

Collaboration is becoming vital to successful project management, causing a shift away from traditional, top-down hierarchies toward collaborative team structures. As these new workgroup models take hold, the organizations leading this transition will experience increased demand for planning and scheduling tools that can support their collaborative environments.

Project is ideal for anyone who manages and runs single or multiple projects, large or small. Learn how to produce, plan, manage, collaborate and report on projects easily and efficiently without any knowledge of project management methodology.

FEATURES:

- Personal Gantt chart outlines each team member's own tasks across multiple projects.
- Team members can create tasks; the project manager can approve those new tasks before adding them to the project plan.
- Tasks may be delegated from leads to team members or from peer to peer.
- Team members can show entries from their task list in the Outlook messaging and collaboration client so they can see all their project and non-project tasks in a single location.

Microsoft Project Central is a web-based team collaboration tool and a companion product to Project 2000, allowing two-way communication between everyone involved in a project and also allowing data access to anyone internally and externally.

Delivering a powerful set of collaborative planning and scheduling tools, Microsoft Project Central takes advantage of the accessibility and availability of information on Windows-based intranets to deliver collaborative features that encourage participation of the whole project team and provide unprecedented visibility to project information.



NEW!

£122.52
ONLINE
53-01-57

Microsoft Project Central contributes to the success of a project by ensuring clear communication of project data both up and down the management chain and by allowing project managers to capture the expertise of resources. Even users with limited knowledge of project management methodology and no familiarity with Microsoft Project can easily view, update and provide input on the project plan and schedule.

Publisher's quoted system requirements:
PC with Intel Pentium 75MHz or higher or compatible, Windows 95 or 98, Windows NT Workstation version 4.0 (SP4 or later), Windows 2000 Professional. 24MB of RAM. Hard disk usage will vary depending on configuration. 30MB for a typical installation on a system that has Windows NT4 workstation with Microsoft Office 2000 installed. 204MB is recommended for a full installation on a Windows NT4 Workstation without Microsoft Office 2000 installed.

One license for Project Central is included in the Project 2000 pack. Further licenses can be purchased in packs of 5 via the Open and Select licensing programme. See pages 793–795 for details.

www.action.com/microsoft

DESCRIPTION	FOR USE WITH	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Project 2000	WIN 95/98/2000/NT	22-52-77	308.87	▶	309.95	309.64	NEW
Project 2000 **Version Upgrade**	WIN 95/98/2000/NT	53-01-57	122.52	▶	122.95	122.83	NEW

OTHER ITEMS

FOR MICROSOFT LICENSING SEE PAGES 793–795
FOR SOFTWARE INDEX SEE PAGES 810–814

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶Save £££'s!
▶▶Check live stock
▶▶Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

CONTACT MANAGEMENT — INTERACT



ACT!™ 2000 is the award-winning leader in contact management software. It gives you instant access to detailed contact and account information, plus a complete history of your contact-related communications and help with managing your schedule efficiently. With ACT! 2000 you can powerfully manage activities for entire accounts as well as individuals. That's in addition to the comprehensive customisable contact information you expect from ACT! including the ability to store notes from meetings and phone calls. Unprecedented integration with other business tools lets you use ACT! 2000 to send e-mail letters and memos in Microsoft Word and enter expenses directly into Quicken ExpenAble (trial version included). Built-in Internet links make it easy to find information to enhance your contact database. The included Palm Pilot Link software keeps you productive even when you're away from the office by transferring ACT! information between your desktop and your Palm Computing device. New 'sales funnel' graphs help you manage your sales pipeline more effectively. ACT! 2000 even includes expert assistance from Dale Carnegies Training to help you turn contacts into sales.

Publisher's quoted system requirements:
PC with 80486/66MHz or higher microprocessor; Pentium 133MHz or higher recommended. 16MB of RAM (32MB of RAM recommended). More memory improves performance. 50MB of free hard disk space for installation. VGA or higher resolution monitor. Windows compatible modem required for auto-dialling or modem-based synchronisation. Supported electronic mail software: Lotus cc:Mail, cc:Mail Mobile, Lotus Notes Mail 4.6 or later, Microsoft Outlook 98, Microsoft Outlook 2000, Eudora Pro and Internet e-mail (SMTP/POP3). ACT! 2000 has a built-in POP3 e-mail client that can be used for Internet mail. Microsoft TAPI enabled phone hardware and Caller ID support to auto-find contacts Networks supported: Novell NetWare version 3.12 and later, Microsoft NT 4.0 and Windows 95/98 Word processing support: Microsoft Word 95, Word 97 and Word 2000. ACT! 2000 also has a built-in word processor. Fax support: WinFax PRO 8.3 or later and Microsoft Fax.

FEATURES:

- Find your best leads for any particular day, week or month.
- Manage your day more efficiently with calendars, to-do lists and on-screen alarms.
- Stay connected online. If you want to see a client's Web site, you can store the URL and launch it right from within ACT!. Plus, you can contact people online with complete support for Internet e-mail.
- ACT! maintains a complete history of your contact-related communications, such as e-mail, proposals, and meeting notes.
- FoneSync™ from Paragon Software enables ACT! users to transfer up to 250 names and numbers from an ACT! database to a digital phone.
- Exchange information between your ACT! desktop database and your Palm Computing® device.
- Expanded database maintenance and synchronisation, as well as improved data entry and search capabilities.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
ACT! 2000	WIN 95/98/NT	85-67-48	132.29	➧	135.99	134.63
ACT! 2000 **5 SMLP**	WIN 95/98/NT	75-58-22	573.88	➧	589.95	584.05

OTHER ITEMS
FOR REMOTE FILE TRANSFER SOFTWARE SEE PAGES 872, 878

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
»Save £££'s!
»Check live stock
»Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS 2000, WINDOWS NT

PERSONAL INFORMATION MANAGER

Lotus Microsoft



Lotus Organizer 6.0 is the best way to control your time, your contacts and your information. Use it to set up appointments. Keep track of business and personal contacts. AutoDial phone numbers. Create to do lists. Make notes. Sort information. Log onto your favourite Web sites. Even share calendars and set up meetings over the Internet.

FEATURES:

- Create Web entries to manage information about Web pages you frequently visit, including a Web page's login information.
- Click an icon to install FoneSync, then drag and drop names and numbers from your Organizer Contact records to your digital mobile phone.

Publisher's quoted system requirements:
IBM PC or compatible (486 or higher). Windows 95/98 or NT 4.0. 8MB RAM minimum for Windows 95, 24MB RAM minimum for Windows 98/NT. 17MB available disk space to install the minimum features. Scheduling requires a Simple MAPI, POP3, or IMAP4 mail client. Microsoft Internet Explorer 4.01 or Netscape Communicator 4.5. CD-ROM drive.



Electronic mail, personal calendar, group scheduling, personal information such as contacts and tasks, custom collaboration and information sharing applications: **Microsoft Outlook 2000** helps users organise, find and view all of this information.

FEATURES:

- Collaborate with team members by saving personal or team calendars to your intranet with the new Save As Web Page feature.
- Manage e-mail using separate personal and business accounts directly to your Outlook inbox.
- Includes standard Office 2000 productivity features such as personalised menus, toolbards and Quick Customize toolbars.

Publisher's quoted system requirements:
Pentium 75MHz or higher. Microsoft Windows® 95 or later, or Windows NT® Workstation version 4.0 or later. 16MB of RAM plus 8MB RAM for Outlook. For Windows Workstation version 4.0 or later:- 32MB of RAM. CD-ROM drive. VGA or higher-resolution monitor; Super VGA recommended.

Customers now only require 5 licenses to participate in Microsoft's new Open 5.0 licensing programme.
Call 08701 633 300 for more details.

www.action.com/lotus
www.action.com/microsoft

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Lotus Organizer 6.0	WIN 95/98/NT	49-19-16	54.15	55.99	55.43	54.99
Microsoft OutLook 2000	WIN 95/98/NT	52-17-77	74.99	77.95	77.49	76.95

OTHER ITEMS
FOR LOTUS LICENSING SEE PAGES 797, 798
FOR LOTUS SMARTSUITE SEE PAGES 824

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW *item on this page*

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

REPORTS WRITER



Seagate Crystal Reports is the world's most widely used reporting tool with over four million users. Version 8 of Seagate Crystal Reports offers a comprehensive web reporting solution to access, analyze and report on data. In addition to enhanced processing performance and an Internet architecture/ web server that provides migration to Seagate Software's other business intelligence products.

FEATURES:

- Comprehensive web reporting solution for easy e-reporting.
- Powerful tools to integrate reporting into Web and Windows applications.
- Seamless integration with Microsoft Office.
- Enhanced performance – up to 10 times faster.
- Create customised reports with ease with user friendly report experts and flexible formatting.
- Data highlighting, enhanced cross-tab options, and an improved formula editor, provide even more reporting flexibility.
- Flexible interactive analysis for in-depth investigation including interactive maps and graphs.
- Royalty-free licensing makes adding reporting to Windows applications hassle-free.
- Includes facility for report design from within the Microsoft Visual Basic environment, including new support for Visual Basic 6.0.
- Integrated e-mail capability.
- Drawing-style interface, rulers and guidelines.
- Powerful reporting for application developers.
- Unparalleled web capabilities include new interactive query and analysis over the Web and easy to use Web reporting for workgroups.
- Presentation quality reports from any database.

Publisher's quoted system requirements:
486 or higher processor. 32 BIT. Microsoft Windows 95, 98, 2000 or Windows NT (V4.0 or higher). 30MB hard disk space (full installation 195MB). 32MB RAM for Windows NT & Windows 98. CD-ROM.

CHECK MEDIA BEFORE YOU BUY

	DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	Crystal Reports 8 Developer Edition	WIN 95/98/NT	47-64-64	276.08	➧	285.95	283.09
NEW	Crystal Reports 8 Developer Edition 1yr subs	WIN 95/98/NT	49-71-51	328.21	➧	339.95	336.55
	Crystal Reports 8 Developer Edition **Upgrade**	WIN 95/98/NT	47-76-70	160.22	➧	165.95	164.29
	Crystal Reports 8 Developer Edition **5 pack**	WIN 95/98/NT	47-78-01	1117.56	➧	➧	1145.95
	Crystal Reports 8 Developer Edition **Upgrade 5 pack**	WIN 95/98/NT	47-82-28	646.82	➧	669.95	663.25
	Crystal Reports 8 Professional	WIN 95/98/NT	47-62-55	220.08	➧	227.95	225.67
	Crystal Reports 8 Professional **Upgrade**	WIN 95/98/NT	47-31-46	128.36	➧	132.95	131.62
	Crystal Reports 8 Professional **5 pack**	WIN 95/98/NT	47-34-68	868.88	➧	899.95	890.95
	Crystal Reports 8 Professional **Upgrade 5 pack**	WIN 95/98/NT	47-91-71	507.79	➧	525.95	520.69
	Crystal Reports 8 Standard	WIN 95/98/NT	47-40-11	82.15	85.95	85.09	84.24
	Crystal Reports 8 Technical Reference Guide	WIN 95/98/NT	47-60-68	19.07	19.95	19.75	19.55

OTHER ITEMS

FOR MICROSOFT VISUAL BASIC SEE PAGE 831
FOR VERITAS VIP LICENSING SEE PAGE 801

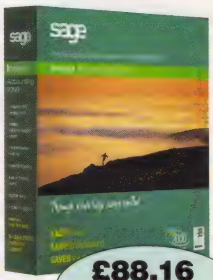
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

PRODUCTS FOR: WINDOWS, WINDOWS 95, WINDOWS 98, WINDOWS NT

ACCOUNTING & PAYROLL

Microsoft SAGE

Sage Instant Accounting 2000 for Windows is an accounting software package designed for small businesses.

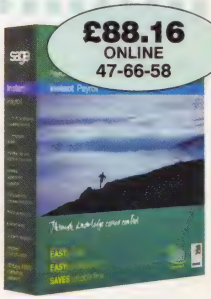


£88.16
ONLINE
47-66-41

FEATURES:
- Customer transaction history.
- Bank records for cheque/cash payments and receipts.
- Income and expenditure report.
- Balance sheet.
- Invoicing from product price file.
- Step by Step Tax Year End wizard.
- Secured database.
- Improved reporting structure.
- Improved workflow for easier processing.
- New Getting It Right First Time Guide – easy steps to get you started.
- Late payments facility.
- VAT Transfer Wizard.
- Streamlined Bank Routines.
- On-line capabilities – e-mail customers, suppliers and the bank.
- Telephone tips for chasing debt – ideal for helping with credit control.

Publisher's quoted system requirements:
16MB RAM Pentium or higher processor. EGA or higher resolution monitor, mouse.

Sage Instant Payroll 2000 is designed specifically for small businesses with up to 10 employees, reducing complicated manual procedures.



£88.16
ONLINE
47-66-58

FEATURES:
- Instant and extensive call-up of all employees names and addresses, tax codes, rates of pay and gross pay to date figures.
- All relevant PAYE and National Insurance bands and rates are stored.
- All payslips can be printed out exactly as they appear on screen.

Publisher's quoted system requirements:
16MB RAM, Pentium or higher processor, EGA or higher, mouse.

Microsoft TaxSaver 99 is designed to take the difficulty out of self-assessment. Once you are happy with your Tax Return, you can simply print, sign and send to the Inland Revenue.



£14.77
ONLINE
52-97-93

FEATURES:
- Produces accurate results and is tested and approved by KPMG Consulting, one of the UK's leading tax advisers.
- Includes 'Tax Tips' which offer useful advice under a range of headings, such as 'tips for self-employed.'

Publisher's quoted system requirements:
Windows 95, Windows 98 or Windows NT 4.0. Pentium 90 or higher processor. 32MB RAM. 25 to 120MB hard-disk space (120 required if Microsoft Internet Explorer 4.01 Service Pack 1A or later is not already installed). Double speed or faster CD-ROM drive. 14.4 or higher-baud modem required to use online features.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Sage Instant Accounting 2000	WIN 3.x/95/98/NT	47-66-41	88.16	98.95	95.98	93.10
Sage Instant Payroll 2000	WIN 3.x/95/98/NT	47-66-58	88.16	98.95	95.98	93.10
TaxSaver 99 1.0	WIN 95/98/NT	52-97-93	14.77	15.95	15.79	15.65

OTHER ITEMS

FOR SOFTWARE INDEX SEE 810–814
FOR MICROSOFT LICENSING SEE PAGES 793–795

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

ACCOUNTING AND PAYROLL

SAGE



£970.00
ONLINE
46-92-63

Sage Payroll V5 for Windows offers a great number of improvements over previous versions of this software – including Internet connectivity – while retaining the most popular and useful features. Wizards are added to guide users through the most complicated payroll procedures, while V4 also has a Holidays and Absence Diary to enable resources to be better planned. In addition, the Attachment of Earnings feature also ensures that you can deal with the complexity caused by maintenance and statutory payments.

FEATURES:

- Stores relevant PAYE, SSP, SMP, NI bands and rates.
- Prints payslips, cheques and Giros with user-definable report layouts.
- One-click Internet access to take advantage of on-line, up-to-date financial information and services.

Publisher's quoted system requirements:
8MB RAM. 486 or above. Windows 3.1 or better. SGA or above.



£395.00
ONLINE
49-32-96

Sage Line 50 is the UK's brand leading accounting software range. Sage Sterling Financial Controller and Accountant will process your accounts, providing data and vital information, then help you analyse and act upon them.

ACCOUNTANT FEATURES:

- **Sales Ledger.** Keeps track of all your customers.
- **Purchase Ledger.** Detailed record of your suppliers.
- **Nominal Ledger.** Collates all transactions and balances recorded in other ledgers producing a Profit and Loss Account and a balance sheet.
- **Complete VAT Management.** Sterling will calculate your VAT Return at the touch of a button.
- **Credit Control.** Provides full details for each sales account.
- **Management Reports.** Sets out the facts, clearly and accurately in a choice of formats.

ALSO AVAILABLE:
Sage Line 50 Financial Controller – Features all of the above and much more.

Publisher's quoted system requirements:
8MB RAM, 486SX or above, MS-DOS 3.1 or above, Windows 3.1 or above, hard disk, VGA or above.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Sage Payroll 5 **Unlimited Users**	WIN 95/98/NT	46-92-63	970.00	➧	970.00	970.00
Sage Line 50 Accountant V6.0	WIN 95/98/NT	49-32-96	395.00	➧	395.00	395.00
Sage Line 50 Financial Controller V6.0	WIN 95/98/NT	49-95-97	840.00	➧	840.00	840.00
Sage Line 50 Accountant Plus V6.0	WIN 95/98/NT	49-18-88	575.00	➧	575.00	575.00

OTHER ITEMS

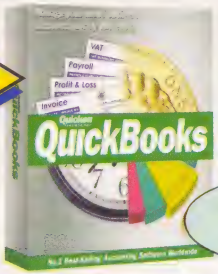
FOR SOFTWARE INDEX SEE PAGES 810–814

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

FINANCE

Intuit



QuickBooks 8.0 the latest version of the world's best selling accounting software. Includes significant enhancements. With estimating, time tracking and job costing, QuickBooks Pro 8.0 is ideal for businesses who want to use it for more than just managing their accounts.

FEATURES:

- Create estimates and then turn them instantly into invoices with a mouse click. You can produce progress invoices by date, milestone or percentage.
- See job profitability 11 different ways. Your estimates, invoices, timesheets and expenses all flow to reports. Compare estimates Vs actual costs so you know exactly how much money you are making and where.
- Integrate your data with Microsoft Word and Excel enabling you to do your own analysis whilst avoiding unnecessary and time consuming chore of re-keying data.
- Prewritten selection of letters include collection, thank you, marketing and advertising letters. Written by professionals, these can be easily customised to suit your exact needs.
- Multi User allows more than one person to use QuickBooks Pro at the same time.

Publisher's quoted system requirements:
IBM compatible Pentium computer: (166MHz Pentium computer recommended). Windows 95/98, Windowsw NT 4.0 higher. 32MB RAM (64MB RAM recommended). 85MB free hard disk space. Internet access required for optional services 2× CD-ROM (double speed). VGA or SVGA monitor.



Quicken 2000 keeps you in control of your money so that you know where it is going and how much you have at any time. It tracks your bank accounts, credit cards and investments and savings.

FEATURES:

- Personalised overview of your entire financial picture from the Quicken Home Page.
- Download share prices for the USA, France and Germany.
- Internet integration including tracking investments and the latest personal finance news.
- Online banking – download your Natwest back statements.

Quicken 2000 Deluxe

FEATURES:

- Includes a free copy of QuickTax 99, the easy to use tax self-assessment software.
- Smarts Alerts warn you of specific financial situations.

Publisher's quoted system requirements:
Pentium processor minimum. Windows 95 and Windows 98. 32MB RAM recommended. 38MB free hard disk space. 40MB hard disk space for Microsoft Internet Explorer. CD-ROM drive. SVGA double speed. 14.4 modem.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Quicken 2000 Standard	WIN 95/98	49-08-60	25.76	26.95	26.68	26.41	
Quicken 2000 Deluxe	WIN 95/98	49-12-71	42.96	44.95	44.50	44.06	
QuickBooks 8.0	WIN 95/98/NT	49-96-47	74.51	77.95	77.17	76.40	NEW
QuickBooks 8.0 Pro	WIN 95/98/NT	49-56-04	154.43	♦	159.95	158.35	NEW

OTHER ITEMS

FOR SOFTWARE INDEX SEE PAGES 810–814

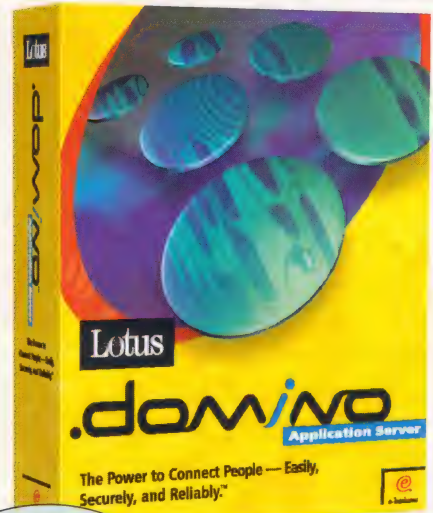
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS NT

GROUPWARE & E-MAIL

Lotus

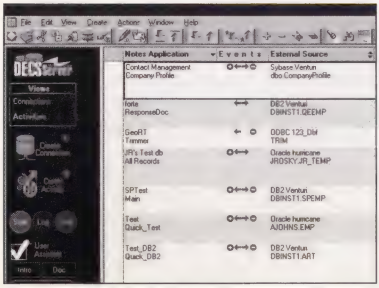


£573.99
ONLINE
49-52-51

Domino R5 servers set a new standard for rich Internet messaging, ease of administration, reliability, rapid Web application development and integration with enterprise information systems. The only solution built on an open, unified architecture, Domino is trusted by the world's leading companies to deliver secure communication, collaboration and business applications.
With the latest improvements in the Domino R5 server family, such as a broad range of connectors to enterprise systems, support for Web standard technologies and a complete, intuitive development environment, Domino continues to be the most robust Web application development platform available.
Providing key enhancements, Domino R5 includes an improved scalability and performance; increased reliability; easier manageability; a more secure infrastructure; easier search facility and broad integration with enterprise systems.

FEATURES:

- **Business application integration.** Take advantage of the applications you use every day. Use Lotus Word Pro or Microsoft Word as your e-mail editor. Securely manage and route your Microsoft PowerPoint presentations or Microsoft Excel spreadsheets with the Microsoft document Library.
- **Portfolios.** Group related applications together, for greater efficiency. Easily navigate through e-mail, your calendar, the Web and other specifications without changing windows. Share portfolios so everyone has the same applications readily accessible.
- **One-stop convenience.** Use Notes to retrieve messages from your Internet Service Provider or any Net server that supports POP3 such as the Domino server. Place all your corporate mail and personal mail in a single box.



Publisher's quoted system requirements:
Windows NT 4.0 (Intel, Alpha). IBM AIX 4.3.1, HPUX 11.0. Sun Solaris 2.6 (SPARC and Intel). IBM OS/2. Warp Server 4. IBM AS/400 V4R2, IBM S/390 V2R6.

Customers requiring licensing for 5+ users require Lotus Passport Advantage.
Please see pages 797, 798 for details.

CHECK MEDIA BEFORE YOU BUY

www.action.com/lotus

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Lotus Domino R5 Mail Server	WIN NT SERVER	49-52-51	573.99	◗	578.99	577.99
Lotus Domino R5 Application Server	WIN NT SERVER	49-52-75	1452.49	◗	◗	1454.00

OTHER ITEMS

FOR LOTUS LICENSING SEE PAGES 798–799
FOR LOTUS SMARTSUITE SEE PAGE 824
FOR LOTUS 1-2-3 SEE PAGE 827

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: DOS, WINDOWS 95, WINDOWS 98, WINDOWS NT

GROUPWARE & E-MAIL

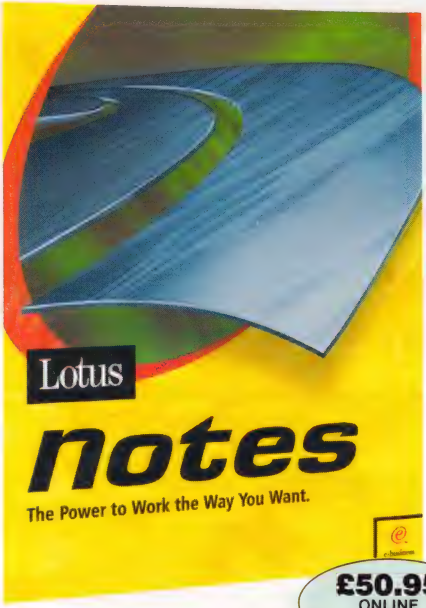
Lotus

With **Notes R5, Lotus** is creating a client that functions as a standalone, integrated e-mail, calendaring, group scheduling and Web information management tool that is easy to use and completely customisable. Notes R5 will allow users to work in a familiar environment based on a browser-like navigation model, with the added flexibility and power of Notes. While Notes remains the industry-leading, integrated client for enterprise messaging and collaboration, Notes R5 with its unprecedented navigational enhancements, rich Web content and information management capabilities, will raise the bar once again in the integrated collaborative client software market.

Domino R5 servers set a new standard for rich Internet messaging, ease of administration, reliability, rapid Web application development and integration with enterprise information systems. The only solution built on an open, unified architecture, Domino is trusted by the world's leading companies to deliver secure communication, collaboration and business applications.

With the latest improvements in the Domino R5 server family, such as a broad range of connectors to enterpise systems, support for Web standard technologies and a complete, intuitive development environment, Domino continues to be the most robust Web application development platform available.

Providing key enhancements, Domino R5 includes improved scalability and performance; increased reliability; easier manageability; a more secure infrastructure; easier search facility, and broad integration with enterprise systems.



£50.95
ONLINE
49-52-20

Customers requiring licensing for 5+ users require Lotus Passport Advantage.
Please see pages 797, 798 for details.

FEATURES:
- Notes R5 Headlines.
- Notes R5 Welcome Page.
- Informations management.
- New messaging functions.
- New calendar options.
- Support for all standards-compliant Web services.
- Enhanced integration with productivity software suites.

Publisher's quoted system requirements:
Windows NT 4.0 (Intel, Alpha). IBM AIX 4.3.1, HPUX 11.0. Sun Solaris 2.6 (SPARC and Intel). IBM OS/2. Warp Server 4. IBM AS/400 V4R2, IBM S/390 V2R6.

CHECK MEDIA BEFORE YOU BUY

www.action.com/lotus

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Lotus Notes R5 Messaging Client	X-Platform	49-52-20	50.95	55.95	55.39	54.84
Lotus Notes R5 Collaboration Client	X-Platform	49-52-37	68.15	69.99	69.29	68.85
Lotus Notes R5 Designer Client	X-Platform	49-52-44	389.06	◗	399.95	395.95

OTHER ITEMS

FOR LOTUS LICENSING SEE PAGES 798, 799
FOR OTHER LOTUS PRODUCTS SEE PAGES 824, 827, 892, 893

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS NT

E-MAIL/GROUPWARE

Microsoft



£216.40 ONLINE 23-47-77

NOW COMES WITH OUTLOOK 2000

Microsoft Certified Solution Provider Partner

New Microsoft Exchange Server 5.5 is the messaging and collaboration server for the most demanding business needs. The scalability, performance, high availability and enhanced security make Exchange the ideal messaging foundation.

Built on an architecture of Internet standards, with new support for IMAP4 and LDAPv3, Exchange 5.5 delivers excellent enterprise interoperability including built-in connectors for Lotus Notes, IBM OfficeVision/VM and SNADS. Exchange and Outlook 97 to make instant collaboration easy and the new Event Scripting Agents and Collaborative Data Objects enable Web-based business solutions to be built using standard web tools.

- Solid Messaging Foundation – Offers high performance and high availability. It is backed by a services and support organisation that can manage your needs from the department to the enterprise.
- Connectivity and Co-existence. The messaging platform allows you to choose protocols and clients that are best for your company, rather than locking you into a single protocol environment.
- Exchange Connector for Lotus Notes Messaging connection and directory synchronisation between Microsoft Exchange and Lotus Notes V3 and V4 and Domino V4.x.
- Exchange Connector for IBM OfficeVision/VM Messaging connection between Microsoft Exchange Server and IBM OfficeVision/VM (PROFS).

Publisher's quoted system requirements:
Pentium 60 (Intel Pentium 133 recommended). Server – Risc-based: System Alpha AXPTM processor or Motorola Power PC 604 processor. Memory; Server – 24MB of memory (32MB recommended).
Client – 8MB of memory (12MB recommended); with Forms Designer, 12MB of memory (16MB recommended). Hard Disk Server – 250MB of available hard disk space (500MB recommended). Client – 12-22MB of available hard disk space. CD-ROM drive. Windows NT Server version 3.51 or later.

Customers now only require 5 licenses to participate in Microsoft's new Open 5.0 licensing programme.
Call 08701 633 300 for more details.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
MS Exchange Server 5.5 Standard **5 Clients**	WIN NT	52-98-74	681.56	◗	683.95	683.27
MS Exchange Server 5.5 Standard **10 user**	WIN NT	38-80-21	926.39	◗	929.95	929.49
MS Exchange Server 5.5 Standard **25 user**	WIN NT	38-80-38	1436.69	◗	◗	1439.95
MS Exchange Server 5.5 Standard **Competitive & Product Upgrade**	WIN NT	43-59-05	488.09	◗	489.95	489.95
MS Exchange Server 5.5 **Version Upgrade**	WIN NT	23-47-77	216.40	◗	219.99	218.67
MS Exchange Server 5.5 Enterprise **25 user**	WIN NT	38-80-52	2446.28	◗	◗	2449.95
MS Exchange Server 5.5 Enterprise **50 user**	WIN NT	38-80-69	3335.66	◗	◗	3339.00
MS Exchange Server 5.5 Enterprise **Upgrade**	WIN NT	38-80-76	560.85	◗	567.95	565.79
MS Exchange Server 5.5 Enterprise **Competitive & Product Upgrade 25 clients**	WIN NT	52-17-70	1190.00	◗	◗	1199.95
MS Exchange Server 5.5 **Product U/G 25 clients**	WIN NT	31-35-58	878.29	◗	879.95	879.59
MS Exchange Server 5.5 **5MLP**	WIN NT	41-97-87	227.47	◗	228.95	228.38

OTHER ITEMS

FOR TECHNICAL SERVICES SEE PAGES 26–39
FOR MICROSOFT LICENSING SEE PAGES 793–795

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

OPERATING SYSTEMS

redhat COREL



For full Server and Workstation system requirements see web page at:- www.redhat.com/commerce/hardware.html



Red Hat Linux 6.2 Professional Edition is the ultimate operating system to power your server or workstation. Featuring advanced server and e-commerce tools and 180 days of Priority Online Access to keep your code current. It's the perfect choice for ISPs, Web developers, small business owners and system administrators.

Publisher's quoted system requirements:
For Intel (x86), Alpha and SPARC® platforms 16MB RAM. 125MB hard disk space (600MB recommended). CD-ROM drive. 3.5" floppy drive.

Red Hat Linux 6.2 Deluxe Edition is the complete Red Hat solution. It features 30 days telephone installation support, the Getting Started Guide and Linux Applications Library. Perfect if you're just getting started.

Publisher's quoted system requirements:
For Intel (x86), Alpha and SPARC® platforms 16MB RAM. CD-ROM drive. 3.5" floppy drive.



Red Hat Linux 6.2 Standard Edition is the convenient way to get the official Red Hat Linux operating system, featuring the full Red Hat Linux operating system with easy installation and without having to download elements separately.

Publisher's quoted system requirements:
For Intel (x86), Alpha and SPARC® platforms 16MB RAM. CD-ROM drive. 3.5" floppy drive.



Corel® LINUX® OS is Linux® power built specifically for the desktop. Based on Debian and featuring an incredible four-step installer and a KDE-based, drag-and-drop desktop environment, Corel LINUX OS is easy to install and configure.

Publisher's quoted system requirements:
Pentium® or Pentium-compatible processor. 24MB RAM (64MB RAM recommended). 500MB of hard disk space. CD-ROM drive. 2MB VGA PCI card. Supports most hardware designed for Pentium computers. Visit Corel Web site for complete hardware compatibility list.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Red Hat Linux 6.2 Professional for Intel	Linux	49-23-78	91.71	95.95	94.99	94.04	NEW
Red Hat Linux 6.2 Deluxe for Intel	Linux	49-96-40	44.88	46.95	46.48	46.02	NEW
Red Hat Linux 6.2 Standard for Intel	Linux	49-55-95	22.23	24.95	24.20	23.48	NEW
Corel Linux OS Standard	Linux	49-50-35	34.62	35.95	35.59	35.23	NEW
Corel WordPerfect Office 2000	Linux	49-96-50	89.05	99.95	96.95	94.04	NEW

OTHER ITEMS

FOR MEMORY UPGRADES SEE PAGES 193–203

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Enabling the next generation of PC computing

Get ready for the future of business with Windows 2000, representing the best operating system ever developed. Combining the best features of Windows NT 4.0 and Windows 98, Windows 2000 offers even greater ease of use and increased productivity.

	Yesterday	Today
Business Desktop	Microsoft Windows NT Workstation	Microsoft Windows 2000 Professional
Business Servers	Microsoft Windows NT Server	Microsoft Windows 2000 Server / Microsoft Windows 2000 Advanced Server

Microsoft Windows 2000 Microsoft Microsoft Windows 2000 Professional

Microsoft Windows 2000

Internet-enabled Business

- Web application services
- Internet scalability
- Security

Reliability

- High system uptime
- Resilient to application failures
- Dynamic system configuration

Best for New Devices

- Laptops
- Networking
- Peripherals

Manageability

- Centralised management
- Desktop management
- Easy to Deploy

UPGRADE ONLY
£87.95 +VAT
Cat No 53-77-90



UPGRADE ONLY
£343.95 +VAT
Cat No 31-35-59



UPGRADE ONLY
£1357.95 +VAT
Cat No 53-00-28



For more information on Windows 2000 see pages 899-902

Microsoft Windows 2000 Advanced Server

Microsoft

Microsoft Windows 2000 Server

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

OPERATING SYSTEMS & UTILITIES

Microsoft



Microsoft Certified Solution Provider Partner



Enhance your productivity and redefine your PC's possibilities with the updated Second Edition of **Microsoft® Windows® 98** operating system. It provides full Internet integration, optimal performance, and support for the latest entertainment and accessory options.

FEATURES:

- With Microsoft Internet Explorer 5 built in, you can get more done on the Web faster.
- See, talk and work with family, friends, and colleagues using Windows NetMeeting 3 conferencing Software.
- Easily add the latest devices, such as digital cameras, scanners, and more.

Publisher's quoted system requirements:
486DX/66MHz or higher processor. 24MB of memory. When using FAT 16 File system, typical installation requires 260MB of available hard-disk space, but may range between 210MB and 400MB, depending upon system configuration and options selected. When using FAT 32 File system, typical installation requires 210MB of available hard-disk space (190MB to 305MB recommended. Typical installation requires approximately 205MB of free hard-disk space, but may range between 140MB to 315MB. CD-ROM or DVD-ROM drive (3.5" high-density disks available for additional charge). VGA or higher-resolution monitor. Microsoft Mouse or compatible pointing device.

Microsoft Plus! 98 is the ideal companion for Windows 98 with great enhancements for work. It includes powerful system utilities, new desktop and creative tools.

FEATURES:

- File Cleaner.
- Start menu cleaner.
- Compressed folders.
- Customisation facility.
- Deluxe CD player.

Customers now only require 5 licenses to participate in Microsoft's new open 5.0 licensing programme call 08701 633 300 for more details.

Publisher's quoted system requirements:
Windows 98 Operating System; Pentium 90MHz or higher processor; 16MB of memory (more memory improves performance). Installation will range between 100MB to 150MB, depending on your system configuration and the options you choose to install. CD-ROM or DVD-ROM drive; VGA or higher resolution monitor; Microsoft Mouse or compatible pointing device.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Windows 98 Refresh Second Edition	WIN 95/98/NT	12-09-90	113.89	◗	114.95	114.85
Windows 98 Refresh Second Edition **CCP Version Upgrade**	WIN 95/98/NT	38-28-94	58.69	58.95	58.89	58.83
Plus! 98	WIN 98	43-50-53	26.24	26.95	26.89	26.78
Resource Kit: MS Windows 98	MANUAL/CD	43-58-02	43.69	44.99	44.85	44.69
Resource Kit: MS Windows 95	MANUAL/CD	42-21-21	31.15	32.29	32.15	31.95

OTHER ITEMS

FOR MICROSOFT LICENSING SEE PAGES 792–795
FOR TECHNICAL SERVICES SEE PAGES 23–39

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 2000

OPERATING SYSTEMS

Microsoft

Microsoft Windows 2000 Professional is the most reliable desktop operating system for organizations of all sizes. Building on the power of Windows NT and the ease of use of Windows 98, Windows 2000 offers additional reliability. Windows 2000 Professional represents the launching pad needed to benefit from the productivity and Internet applications organisations use most. When combined with Windows 2000 Server products, Windows 2000 Professional offers the ideal platform for effectively building your organisation in today's dynamic work environment and preparing for the next generation of Internet and productivity products.



FEATURES:

- Delivers industrial strength reliability and stability with significantly fewer OS reboots.
- Memory protection avoids a single application bringing the system down.
- Easier management of security settings with Security Configuration Manager.
- Secure Virtual Private Networking (VPN) support to tunnel into private LAN over public Internet.
- IP Security to avoid access to sensitive data travelling across the wire.
- Simplified user interface, including personalised menus that adapt to the way you work.
- Easier to set-up and configure your PC with wizards throughout the system.
- Multiple language support with single binary that supports over 60 languages.
- Multilingual version allows for User Interface and Help to switch based on logon.
- Easier to add or remove applications with improved programs applet.
- Support for management standards includes Web-Based Enterprise Management.
- Support for next generation hardware including digital devices such as DVD, cameras and scanners.

Customers now only require 5 licenses to participate in Microsoft's new open 5.0 licensing programme call 08701 633 300 for more details.

Publisher's quoted system requirements: 133MHz or higher Pentium-compatible central processing unit (CPU). Windows Professional 2000 supports up to two processors on one machine. 64MB RAM minimum recommended; more memory improves performance. (32MB RAM minimum supported; 4GB RAM maximum). VGA or higher resolution monitor. Mouse or other pointing device (option). A CD-ROM drive (12x or faster recommended).

www.action.com/microsoft

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Windows Professional 2000 CCP	WIN 95/98/NT	37-00-04	213.95	◗	215.95	215.69	✂
Windows Professional 2000 **Version Upgrade** CCP	WIN NT	53-77-90	87.16	87.95	87.89	87.49	
Windows Professional 2000 **Product Upgrade** CCP	WIN 95/98	64-77-93	144.29	◗	145.95	145.69	✂
MS Press Resource Kit: Windows Professional 2000	MANUAL/CD	53-78-12	41.39	42.95	42.79	42.49	
MS Press MCSE Training Kit: Windows 2000 Professional	MANUAL/CD	37-00-35	34.39	35.95	35.79	35.49	
MS Press Step by Step: Windows Professional 2000	MANUAL/CD	40-87-38	16.72	17.49	17.32	17.14	
MS Press At a Glance: Windows Professional 2000	MANUAL	37-04-39	12.13	12.69	12.56	12.44	
MS Press Running: Windows Professional 2000	MANUAL	42-35-90	24.39	25.95	25.79	25.55	

OTHER ITEMS

FOR MICROSOFT LICENSING SEE PAGES 792–795

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS 2000

OPERATING SYSTEMS

Microsoft



Microsoft Windows Server 2000 integrates standards-based directory, Web application, network, file and print services with powerful end-to-end management and reliability to provide the best foundation for integrating your organization with the Internet. When combined with Windows 2000 Professional, Windows 2000 Server offers the ideal platform effectively building your organisation in today's dynamic work environment and preparing for the next generation of Internet and productivity products.

FEATURES:

- Archive data automatically with Hierarchical Storage Management.
- Increase volume size while online with Dynamic Volume Management.
- Increase disk performance while online with Disk Defragmentation.
- Change and configure hardware without rebooting with Plug and Play.
- Repair system more easily with Recovery Console.
- IP Security to avoid access to sensitive data travelling across the wire.
- Jumpstart telecommuting with Microsoft Connection Manager.
- Allocate network bandwidth to priority applications or users with Quality of Service.
- Centralise management, strengthen security and extend interoperability with Active directory.
- Remotely manage servers from almost any desktop through Terminal Services.
- Migrate from a Windows NT 4.0 environment with the Active Directory Migration Tool.
- Build scalable applications quickly with the Component Object Model (COM+).
- Securely connect mobile employees and branch offices on a Virtual Private Network (VPN).
- Create and share powerful Web solutions with XML integration.
- Next generation support includes USB printers, keyboards and mice.

Publisher's quoted system requirements:
133MHz or higher Pentium-compatible processor. Note: Supports up to two processors on one machine. 256MB RAM recommended minimum (128MB minimum supported; 4GB maximum). 1GB hard disk space. VGA or higher resolution monitor. Keyboard. Mouse or other pointing device (optional). CD-ROM drive 12x or faster recommended. Ensure that all system components are on the Beta 3 Hardware Compatibility List for Microsoft Windows 2000 Server.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Windows Server 2000 **5 Client CCP**	WIN 2000 SVR	53-77-92	672.65	➧	674.95	674.49
Windows Server 2000 **10 Client**	WIN 2000 SVR	64-77-95	800.65	➧	802.95	802.39
Windows Server 2000 **25 Client**	WIN 2000 SVR	77-83-30	1121.69	➧	➧	1123.95
Windows Server 2000 **Version Upgrade 5 Client**	WIN 2000 SVR	31-35-59	328.05	➧	329.79	329.49
Windows Server 2000 **Version U/G 10 Client**	WIN 2000 SVR	90-52-71	373.10	➧	374.95	374.69
Windows Server 2000 **Version U/G 25 Client**	WIN 2000 SVR	39-61-25	527.10	➧	529.95	529.29
Windows Server 2000 **Comp. Upgrade 5 Client**	WIN 2000 SVR	77-93-64	331.15	➧	332.95	332.59
Windows Server 2000 **Comp. U/G 10 Client**	WIN 2000 SVR	86-87-10	382.20	➧	383.95	383.55
Windows Server 2000 **Comp. U/G 25 Client**	WIN 2000 SVR	66-76-21	526.49	➧	527.95	527.65
MS Press Resource Kit: Windows 2000 Server	MANUAL/CD	53-00-94	174.99	➧	179.95	178.95
MS Press MCSE Training Kit: Windows 2000 Server	MANUAL/CD	38-30-27	34.39	35.95	35.79	35.49

OTHER ITEMS

FOR MICROSOFT LICENSING SEE PAGES 792–795

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 2000

OPERATING SYSTEMS

Microsoft

Microsoft Windows Advanced Server 2000 operating system provides all of the features and benefits of Windows 2000 Server. Plus, it includes additional functionality to enhance availability and scalability of e-commerce and line-of-business applications. When combined with Windows 2000 Professional, Windows 2000 Advanced Server is the foundation for the distributed platform that will optimise your organisation for today's dynamic work environment.



FEATURES:

- Prevent overwritten system files with Windows File Protection.
- Identify reliable and unreliable drivers with Driver Certification.
- Protect against errant Web processes with Process Isolation for IIS.
- System files and components updated only by the OS standards-based security.
- NTFS requires authentication to access file system.
- Configure your server automatically with powerful Wizards.
- Deploy copies of configured servers with System Preparation Tool.
- Automatically record DNS computer names with Dynamic DNS.
- Set up network automatically with IP auto-configuration capabilities.
- Simplify extranet user management with Active Directory.
- Run rich Web applications and host Web sites easily with enhanced Internet Information Services 5.0.
- Next generation device support including ATM and Gigabit network-enabled.
- Remotely control multiple clusters with Cluster Administrator.*
- Incrementally expand capacity using Network Loading Balancing.*
- Avoid downtime using Rolling Upgrade Support.*
- Quickly configure clusters with Cluster Service Set-up.*
- Ensure control with Job Object Support.*
- 2 node Clustering Support.*

**Features incorporated in Advanced Server only.*

Publisher's quoted system requirements:
133MHz or higher Pentium processor. Please note that Windows Advanced Server 2000 supports up to two processors on one machine. 256MB RAM recommended (128MB minimum support; 4 gigabytes maximum). 1.0GB hard disk space. VGA or higher resolution monitor. Mouse or other pointing device (optional). CD-ROM drive 12x or faster recommended. Ensure that all system components are on the Beta 3 Hardware Compatibility List for Microsoft Windows 2000 Server.

Customers now only require 5 licenses to participate in Microsoft's new open 5.0 licensing programme call 08701 633 300 for more details.

CHECK MEDIA BEFORE YOU BUY

www.action.com/microsoft

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Windows Advanced Server 2000	WIN 2000 SVR	37-00-07	2645.90	♦	♦	2649.95	✂
Windows Advanced Server 2000 **Version Upgrade 25 Client**	WIN 2000 SVR	53-00-28	1324.79	♦	♦	1329.95	✂
Windows Advanced Server 2000 **Competitive Version Upgrade 25 Client**	WIN 2000 SVR	12-11-07	2196.65	♦	♦	2199.95	

OTHER ITEMS

FOR MICROSOFT LICENSING SEE PAGES 792–795

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS 2000

OPERATING SYSTEMS

Microsoft



£129.11
ONLINE
57-39-20

Windows 2000 Server Licensing Requirements
Microsoft offers flexible, cost-effective options for licensing Windows® 2000 Server family products. You need a server license for each server within a Windows 2000 Server-based network and a Windows 2000 Server Client Access License (CAL) for each client computer that is used by an authenticated user or that uses Windows 2000 Server Services. The majority of customer scenarios will require the same number of Windows 2000 CALs as they would with Windows NT® Server 4.0.

Authenticated User Explained
An authenticated user is one who directly or indirectly uses the Windows 2000 Server Integrated Sign-on Service or receives credentials from the Windows 2000 Active Directory™ service. Windows 2000 Server customers who may be affected by changes in license terms include users planning to access applications running on Windows 2000 Server and users connecting to Windows 2000 as a Web server:

- **Authenticated use by applications.** Customers whose applications use Windows 2000 authentication or directory credentials will require CALs. Many such customers have already purchased CALs for other services such as file and print. But for those who do not have CALs for other purposes, CALs will be a new requirement.
- **Authenticated Internet access.** Customers with Internet sites using Windows 2000 authentication will require CALs for authenticated users connecting to their sites. Such customers may comply with this licensing requirement by purchasing CALs in "Per seat" or "Per Server" mode. Or, they may opt to purchase the new Internet Connector license for unlimited Internet CALs on a single server.

Customers now only require 5 licenses to participate in Microsoft's new open 5.0 licensing programme call 08701 633 300 for more details.

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
WINDOWS						
CAL 2000 5 MLP	WIN 2000 Server	57-39-20	129.11	➧	129.95	129.63
CAL 2000 20 MLP	WIN 2000 Server	35-20-29	473.69	➧	474.95	474.69
CAL 2000 5 MLP **Competitive Version Upgrade**	WIN 2000 Server	81-41-83	57.43	57.95	57.81	57.66
CAL 2000 20 MLP **Competitive Version Upgrade**	WIN 2000 Server	45-98-10	229.05	➧	229.95	229.79
Terminal Services CAL 2000 5 MLP	WIN 2000 Server	12-21-43	428.79	➧	429.95	429.65
Terminal Services CAL 2000 20 MLP	WIN 2000 Server	94-73-91	1656.00	➧	➧	1662.95
Terminal Services CAL 2000 5 MLP **Competitive Version Upgrade**	WIN 2000 Server	40-78-13	221.50	➧	222.95	222.39
Terminal Services CAL 2000 20 MLP **Competitive Version Upgrade**	WIN 2000 Server	75-95-78	877.79	➧	879.95	879.49

OTHER ITEMS

FOR MICROSOFT LICENSING SEE PAGES 792–795

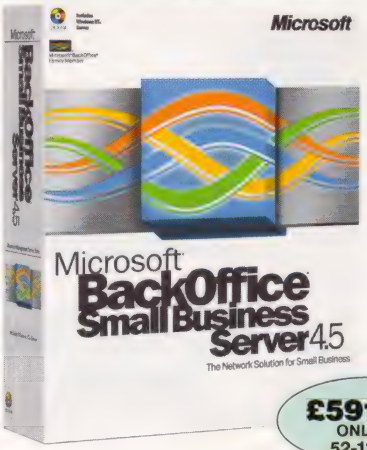
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
»Save £££'s!
»Check live stock
»Track order status

PRODUCTS FOR: WINDOWS NT

SERVER

Microsoft

Microsoft® BackOffice® Small Business Server 4.5 is the network solution for small businesses designed specifically to address the needs of companies with 50 or fewer workstations. Small Business Server 4.5 is easy to install, manage, and use and provides small businesses with improved productivity through significant upgrades to many of the applications in the suite. It also delivers a new set of tools and product functionality designed specifically for technology providers.



£591.09
ONLINE
52-12-50

FEATURES:

- Manage relationships and information more efficiently – communicate via the Internet and interoffice e-mail, solicit business electronically, put your business on the Internet to generate customer interest, centralise account information for easy access.
- Make better business decisions – get current news and business information with a quick/secure Internet gateway, share ideas, manage resources, run business more effectively with compatible business applications, give employees the secure information they need.
- Steamline operations – automate repetitive tasks, share hardware to make the most of your technology investment, share modems to reduce phone costs, easily connect to the Internet for e-mail, Web site hosting and browsing, access files/e-mail remotely.

Customers now only require 5 licenses to participate in Microsoft's new open 5.0 licensing programme call 08701 633 300 for more details.

Microsoft Certified Solution Provider Partner

Publisher's quoted system requirements:
Computer/Processor: For Server – system with a Pentium 120MHz processor (Pentium 200 or higher recommended). For Desktop – PC with a Pentium 90MHz or higher.
Memory: For Server – 64MB of RAM. For Desktop – 32MB of RAM recommended.
Hard Disk: For Server – 2GB of available hard-disk space. For Desktop – 250MB of available hard-disk space.
Drive: For Server – 3.5" high-density disk drive (must be configured as drive A). For Desktop – 3.5" high density disk drive.
Operating System: For Desktop – recommended client operating for Small Business Server 4.5 are Microsoft Windows® 95 or later, or Windows NT Work 4.0.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
BackOffice SBS V4.5 **5 client**	WIN NT	52-49-50	1065.68	➧	➧	1069.95
BackOffice Small Business Server V4.5 **Competitive & Product Upgrade 5 clients**	WIN NT	52-12-50	591.09	➧	594.95	594.29
BackOffice SBS V4.5 CAL **5 clients**	WIN NT	52-08-39	188.72	➧	193.95	191.79
BackOffice SBS V4.5 CAL **20 clients**	WIN NT	52-38-98	634.43	➧	647.95	645.49
BackOffice Small Business Server V4.5 Office PRO **5 clients**	WIN NT	52-27-74	1781.27	➧	➧	1799.95
BackOffice Small Business Server V4.5 Office Pro **Competitive & Product Upgrade 5 clients**	WIN NT	52-36-82	1466.28	➧	➧	1469.95
Resource Kit: BackOffice Small Business Server V4.5	MANUAL	53-00-01	43.49	44.99	44.85	44.69

OTHER ITEMS

FOR MICROSOFT LICENSING SEE PAGE 792–795
FOR SOFTWARE INDEX SEE PAGES 810–814

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS NT

SERVER

Microsoft



BackOffice Server 4.5
FEATURES:

- **Integrated Setup.** BackOffice 4.5 installs and configures all application components and service packs through a single, integrated, consistent setup that includes disk space and dependency checking.
- **Intelligent, Scenario-based Setup.** Setup Scenarios are predefined configuration options that step users through the process of setting up a server for a specific usage scenario. When a scenario is selected, BackOffice server will recommend the components and service packs that need to be set up for this specific solution.
- **Reuseable Deployment Tool.** With reusable setup scripts created during installation and a graphical editing tool for deployment, IT managers can replicate a single server configuration across dozens, hundreds, or even thousands of branch office server deployments.
- **Automatic Upgrade of BackOffice Small Business Server.** BackOffice Server Setup automatically upgrades Microsoft BackOffice Small Business Server 4.5 by detecting installed server software, and removing system and application throttling.
- **Microsoft Management Console 1.1 and Custom Administrator Consoles.** The BackOffice Server Manager provides a single, simple user interface for managing tasks across mulitple BackOffice services, which can be customised and delivered to administrators around an organisation.
- **Cross-Suite Reporting with Seagate Crystal Info 6.0.** Seagate Crystal Info, included in BackOffice Server 4.5, is an enterprise reporting and analysis system designed to get decision-making information into the hands of people who need it.
- **Tools to Help Build Applications.** Single-use licenses and Microsoft FrontPage® 2000 and Microsoft Visual InterDev™ 6.0 are included in BackOffice Server 4.5.

Customers now only require 5 licenses to participate in Microsoft's new open 5.0 licensing programme call 08701 633 300 for more details.

Microsoft Open Licence
The Microsoft Open Licence is designed to provide simple and flexible volume-based pricing. It is designed to reduce the costs associated with acquiring, upgrading, maintaining and managing software. See page 793 for details.

CHECK MEDIA BEFORE YOU BUY

www.action.com/microsoft

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
BackOffice Server V4.5 5 Client	WIN NT	52-30-93	2419.32	➧	➧	2422.95
BackOffice Server V4.5 Server **Upgrade** 5 Client	WIN NT	52-53-45	993.46	➧	999.95	999.79
BackOffice Server V4.5 Server **Comp U/G** 5 Client	WIN NT	53-00-00	1906.18	➧	➧	1910.95
BackOffice Server V4.5 Server **Product Upgrade** 5 Client	WIN NT	52-70-23	1794.99	➧	➧	1798.95
BackOffice Server V4.5 Server **Product Upgrade** from SQL 5 Client	WIN NT	52-17-19	1543.76	➧	➧	1549.95
BackOffice Server V4.5 Server **Upgrade** from SBS 25 Client	WIN NT	52-96-76	3174.77	➧	➧	3177.95
Resource Kit: BackOffice V4.5	MANUAL	52-99-39	156.10	➧	158.49	157.95

OTHER ITEMS

FOR MICROSOFT LICENSING SEE PAGES 792–795
FOR SOFTWARE INDEX SEE PAGES 810–814

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

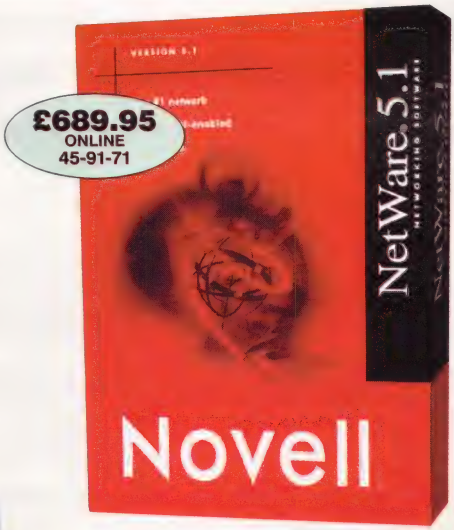
PRODUCTS FOR: NETWARE

NETWORK OPERATING SYSTEMS

Novell

FEATURES:

- Novell International Cryptographic Infrastructure includes passwords encrypted over Secure Sockets Layer, RSA private key/public key encryption, Secure Authentication Services, smart cards, and X.509v3 certificates.
- WebSphere Studio (Entry Edition), a collection of Java development tools, helps you create and enhance dynamic Web pages.
- Delivers directory-based net infrastructure software to help customers smoothly extend their businesses to the Internet.
- Provides customers with Web-based applications, management and resources including browser-based access to servers.
- Includes Novell's new NDS eDirectory, providing companies with the infrastructure for extending networks and directories to the Net for e-business.



FOR NOVELL EXTENDED RANGE
SEE PAGES 959-961

Novell NetWare 5.1, – the newest version of NetWare, helps customers take greater advantage of the growing trend towards open Web-based e-business applications. NetWare 5.1 also delivers improved management, the world's leading network directory, and all the reliability and performance NetWare is known for. Novell has integrated IBM WebShare Application Server 3.0 for NetWare, Standard Edition, into NetWare 5.1. This Java-based Web application server can absorb network traffic from your web server and can be accessed by your NetWare login. WebSphere applications are secured by NDS, which means that there are multiple layers of the strongest security.

Novell **Licensing Hotline: 08701 63 33 00**

EXTRA USER LICENSES:
Extra user licenses are additive **only** – they do not contain server installation software.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NetWare V5.1 Server plus **5 user**	NetWare	45-91-71	689.95	➧	699.95	699.49
NetWare V5.1 **5 user** additive licence	NetWare	45-51-97	549.95	➧	568.95	567.95
NetWare V5.1 **10 user** additive licence	NetWare	45-40-11	738.95	➧	758.95	749.95
NetWare V5.1 **25 user** additive licence	NetWare	45-78-53	1587.95	➧	➧	1597.95
NetWare V5.1 **50 user** additive licence	NetWare	45-93-15	2763.95	➧	➧	2767.95
NetWare V5.1 **100 user** additive licence	NetWare	45-86-98	5465.95	➧	➧	5469.95

OTHER ITEMS

FOR NOVELL LICENSING SEE PAGE 802
FOR SOFTWARE INDEX SEE PAGES 810–814

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
»» Save £££'s!
»» Check live stock
»» Track order status

Lower prices on-line at action.com

PRODUCTS FOR: NETWARE

NETWARE UPGRADES

Novell.

Upgrade Now to NetWare 5.1, the No. 1 Network for Net-Enabled Businesses.

- Pure IP provides a single protocol to manage on more bandwidth with one protocol on the wire.
- IP address management provided with DNS/DHCP.
- Fast Track Web Server.

NETWARE 5.1 UPGRADES

	CAT NO CD-ROM	Web Price	PRICE EACH (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NetWare 5.1 Upgrade Server plus 5 user	43-86-64	362.95	➧	365.75	364.95
NetWare 5.1 Upgrade 5 user additive licence	43-67-44	277.49	➧	279.49	278.95
NetWare 5.1 Upgrade 10 user additive licence	43-75-83	389.95	➧	394.95	394.75
NetWare 5.1 Upgrade 25 user additive licence	43-58-18	867.95	➧	869.95	869.49
NetWare 5.1 Upgrade 50 user additive licence	43-38-91	1485.00	➧	➧	1489.00
NetWare 5.1 Upgrade 100 user additive licence	43-20-02	2910.00	➧	➧	2914.00
NetWare 5.1 Upgrade 250 user additive licence	43-82-68	7099.95	➧	➧	7129.00

CHECK MEDIA BEFORE YOU BUY

NETWARE 3.2

FROM	TO	CAT NO CD-ROM	CAT NO 3½"	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Any 5 Users	V3.2 **5 Users**	44-73-26	44-73-19	334.40	➧	339.95	337.91
Any 5 Users	V3.2 **10 Users**	44-73-40	44-73-33	1374.44	➧	➧	1379.95
Any 5 Users	V3.2 **25 Users**	44-73-64	44-73-57	2693.48	➧	➧	2699.95
Any 10 Users	V3.2 **10 Users**	44-73-88	44-73-71	675.54	➧	679.95	678.25
Any 10 Users	V3.2 **25 Users**	44-74-05	44-73-95	1533.86	➧	➧	1549.95
Any 10 Users	V3.2 **50 Users**	44-74-29	44-74-12	2474.00	➧	➧	2479.95
Any 25 Users	V3.2 **25 Users**	44-74-43	44-74-36	1207.29	➧	➧	1219.95
Any 25 Users	V3.2 **50 Users**	44-74-67	44-74-50	2396.35	➧	➧	2399.95
Any 25 Users	V3.2 **100 Users**	44-74-81	44-74-74	3893.71	➧	➧	3899.95
Any 50 Users	V3.2 **50 Users**	44-75-08	44-74-98	1860.44	➧	➧	1879.95
Any 50 Users	V3.2 **100 Users**	44-75-22	44-75-15	3694.03	➧	➧	3699.95
Any 50 Users	V3.2 **250 Users**	44-75-46	44-75-39	8699.95	➧	➧	8699.95
Any 100 Users	V3.2 **100 Users**	44-75-60	44-75-53	3094.99	➧	➧	3099.95
Any 100 Users	V3.2 **250 Users**	44-75-84	44-75-77	8999.95	➧	➧	8999.95
Any 250 Users	V3.2 **250 Users**	44-76-01	44-75-91	7599.95	➧	➧	7599.95

FOR NOVELL EXTENDED RANGE SEE PAGES 959–961

Novell. Licensing Hotline: 08701 63 33 00

OTHER ITEMS

FOR NOVELL NETWARE SEE PAGES 903–906
FOR NOVELL LICENSING SEE PAGE 802

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

PRODUCTS FOR: WINDOWS NT

THIN-CLIENT SERVER

CITRIX

Building upon the success of the 1.0 release, **MetaFrame 1.8** focuses on enhancements to application management for large scale, enterprise-wide server farm deployments. In this new version, you will find new server, client and protocol features that make MetaFrame an even more compelling solution for deploying, managing and securing enterprise applications.

FEATURES:

- **Enterprise-Scale Management**. Servers can be added easily and transparently without touching user desktops. Applications can be administered across multiple servers from a single location.
- **Seamless Desktop Integration**. MetaFrame offers an enhanced user experience by providing complete access to all local system resources, including full 16-bit stereo audio, local drives, COM ports and local printers.
- **ICA Browser Management**. Administrators now have the ability to control browser parameters such as backup ICA Browsers, ICA Gateways and update and refresh intervals.
- **License Pool Recovery**. Backup licensing feature to better manage pooled licenses across the server farm. With this feature, an administrator can define the number of backup servers to which user-licensing data will be replicated.
- **Client Print Manager** allows users to define which client printers will be configured on their client devices. It provides a means to store printer properties on a per-client-device basis while simplifying printer configuration for non-Windows clients.

£4756.59
ONLINE
22-50-02



- **Program Neighbourhood™** provides for complete administrative control over application access as well as providing seamless desktop integration.
- **Business Recovery Client** now includes the additional intelligence to support multiple sites (such as a primary and hot backup) with different addresses for the same published application name.
- **ThinPrint** helps control print jobs within a server-based computing environment. It allows system administrators to set bandwidth limits for print jobs, it also compresses print files to reduce the bandwidth requirements. Supports MetaFrame, Windows 2000, Microsoft Windows NT and Terminal Server Edition.

DESCRIPTION	FORMAT	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
MetaFrame 1.8 w/subscription advantage	WIN NT SVR	22-50-02	4756.59	➧	➧	4794.95	
MetaFrame 1.8 w/out subs advantage	WIN NT SVR	49-70-52	3931.29	➧	➧	3994.95	
MetaFrame 1.8/Workgroups 1.8 – **5 user**	WIN NT SVR	49-22-93	1514.05	➧	➧	1598.95	
MetaFrame 1.8 w/out subs advantage	WIN NT SVR	12-08-81	1970.15	➧	➧	2000.00	
Load Balancing for MetaFrame 1.8	WIN NT SVR	49-71-62	1087.99	➧	➧	1149.00	NEW
Resource Management Services for MetaFrame 1.8	WIN NT SVR	49-23-89	1087.99	➧	➧	1149.00	NEW
Installation Management Services for MetaFrame 1.8	WIN NT SVR	49-50-47	871.66	➧	949.00	920.53	NEW
ThinPrint V1.0 server	WIN NT SVR	49-13-44	870.63	➧	895.00	886.05	NEW
ADDITIONAL LICENSES FOR CITRIX METAFRAME							
10 Additional Users	WIN NT SVR	25-64-14	1510.27	➧	➧	1594.95	
20 Additional Users	WIN NT SVR	25-05-37	3129.27	➧	➧	3179.95	
50 Additional Users	WIN NT SVR	25-64-21	7974.95	➧	➧	7974.95	

OTHER ITEMS

FOR CITRIX WINFRAME SEE PAGE 908
FOR SOFTWARE INDEX SEE PAGES 810–814

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS NT

THIN-CLIENT SERVER

CITRIX



£1889.03
ONLINE
43-90-11

Building upon the success of the earlier product releases, **WinFrame 1.8** focuses on enhancement to application management for large scale, enterprise-wide server farm deployments and delivering functional parity and interoperability with MetaFrame 1.0, for the NT 3.51 operating system. This new release of WinFrame software is targeted toward current customers expanding their existing WinFrame 1.x solution and organisations using NT 3.51 that are not yet migrating to NT 4.0.

FEATURES:

- **Enterprise Management Scope.** The management and configuration tools can now be enterprise in scope, crossing sub-net boundaries for application publishing and load balancing.
- **SpeedScreen 2™** reduces the transmission of frequently repainted screens, resulting in significant improvements in measured speed especially on restricted bandwidth connections.
- **New ICA Clients** for Linux and SCO Unix so that users can now seamlessly access Windows-based applications from a WinFrame server.
- **Video Ready** enables the production and deployment of custom video applications to 32-bit Windows ICA clients using an innovative intelligent compression and a streaming extension to the ICA protocol.
- **Business Recovery Client** now includes the additional intelligence to support multiple sites (such as a primary and hot backup) with different addresses for the same published application name.
- **Seamless Windows.** Within a single session, a user can gain access to multiple applications, have fully functional local keyboard controls (such as ALT-TAB), switch between local and remote applications on the local taskbar and more.
- **Auto Client Update.** This tools provides an administrator with the ability to install the latest version of the client software, then schedule the download and installation of that software to a client's device.
- **Audio Support.** Introduces audio compression for low-bandwidth connections allowing users to extend their desktop audio schemes to remote applications running on the WinFrame server.
- **Load Balancing Administrator.** This tool allows the ability to manage and configure load-balancing parameters for all load-balanced servers from a single location.
- **Ready Connect Client.** The ICA client can be predefined with phone numbers, IP addresses, server names and connection options prior to first time installation.

Publisher's quoted system requirements:
32-bit × 86-based microprocessor (Intel Pentium or higher). VGA, or higher resolution video display adaptor. One or more hard disks, with 300MB minimum free hard disk space on the partition that will contain the WINFRAME system files. High-density floppy disk drive. One or more network adaptor cards. 16MB RAM recommended.

DESCRIPTION	FORMAT	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
WinFrame/Enterprise 1.8	WIN NT SVR	49-62-57	4756.64	➧	➧	4795.00
WinFrame/Workgroups 1.8 **5 User**	WIN NT SVR	49-49-73	1889.03	➧	➧	1994.95
WinFrame Ent. 1.7 – **15 user**	WIN NT SVR	25-12-99	4756.59	➧	➧	4794.95
WinFrame for Workgroups 1.7 – **5 user**	WIN NT SVR	43-90-11	1889.03	➧	➧	1994.95
ADDITIONAL LICENSES FOR CITRIX WINFRAME						
10 Additional Users	WIN NT SVR	25-64-14	1510.27	➧	➧	1594.95
20 Additional Users	WIN NT SVR	25-05-37	3129.27	➧	➧	3179.95
50 Additional Users	WIN NT SVR	25-64-21	7974.95	➧	➧	7974.95

OTHER ITEMS

FOR CITRIX METAFRAME SEE PAGE 907
FOR SOFTWARE INDEX SEE PAGES 810–814

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

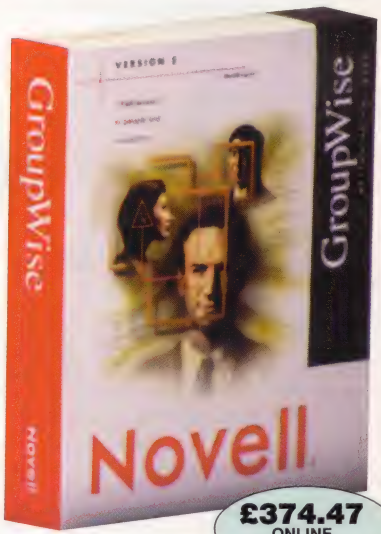
PRODUCTS FOR: WINDOWS

GROUPWARE/E-MAIL SOFTWARE

Novell.

GroupWise 5.5 helps companies leverage their corporate network investments by providing an instant collaborative solution for the corporate intranet.
When you run GroupWise along with NetWare 4.x, *IntranetWare or 5.x, you get incredible performance and Novell Directory Service (NDS), providing a global directory and a single point of administration for both GroupWise and NetWare.
Building on its predecessor, GroupWise 5.2, GroupWise 5.5 also seamlessly integrates calendaring/scheduling, task management, shared folders, threaded conferencing, workflow, remote, and internet access in the Universal Mail Box.

FEATURES:
- Full integration with Novell Directory Server.
- Integration with Novell.
- Support for S/MIME and PGP security.
- Shared personal address books.
- Enhanced Web access and native Internet addressing.



£374.47
ONLINE
45-92-42

Novell. **Licensing Hotline: 08701 63 33 00**

Publisher's quoted system requirements:
Hardware Requirements:
Windows 3: IBM PC compatible with a 486/25 or faster processor, 8MB or more of RAM.
Window 95: IBM PC compatible with a 486/33 or faster processor, 16MB of RAM.
Window NT: IBM PC compatible with a 486/33 or faster processor, 24MB of RAM.
Software Requirements:
GroupWise 5.5 is **Platform Independent,** supporting Macintosh, PowerMac, UNIX, Windows 95 and Windows NT clients; NetWare NLM, UNIX and Windows NT server platforms. In addition, GroupWise also supports industry-standard communication protocols such as NetBEUI, NetBIOS, POP3, SMTP, TCP/IP and x.400.

*Runs on other operating systems but one copy of NetWare is needed for administration purpose.

DESCRIPTION	USERS	VLA* POINTS	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
GroupWise MailBox 5.5	5	60	WIN 3.x	45-92-42	374.47	➧	384.95	381.10
GroupWise MailBox 5.5	10	120	WIN 3.x	45-92-59	729.53	➧	749.95	742.45
GroupWise MailBox 5.5	25	300	WIN 3.x	45-92-66	1763.71	➧	➧	1794.95
GroupWise MailBox 5.5	50	600	WIN 3.x	45-92-73	3477.50	➧	➧	3494.95
GroupWise MailBox 5.5	100	1200	WIN 3.x	45-92-80	6899.95	➧	➧	6899.95
GroupWise MailBox 5.5	250	3000	WIN 3.x	45-92-97	16999.95	➧	➧	16999.95

For further information on VLA points and Novell Licensing see page 802.

OTHER ITEMS
FOR MORE NOVELL PRODUCTS SEE PAGES 905, 906
FOR NOVELL LICENSING SEE PAGE 802

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS NT

E-MAIL

Microsoft



NOW COMES WITH OUTLOOK 2000

£216.40
ONLINE
23-47-77

Microsoft Exchange Server 5.5 is the messaging and collaboration server for the most demanding business needs. The scalability, performance, high availability and enhanced security make Exchange the ideal messaging foundation.

Built on an architecture of Internet standards, with new support for IMAP4 and LDAPv3, Exchange 5.5 delivers excellent enterprise interoperability including built-in connectors for Lotus Notes, IBM OfficeVision/VM and SNADS. Exchange and Outlook 97 make instant collaboration easy and the new Event Scripting Agents and Collaborative Data Objects enable Web-based business solutions to be built using standard web tools.

FEATURES:

- **Solid Messaging Foundation –** Offers high performance and high availability. It is backed by a services and support organisation that can manage your needs from the department to the enterprise.
- **Connectivity and Co-existence.** The messaging platform allows you to choose protocols and clients that are best for your company, rather than locking you into a single protocol environment.
- **Exchange Connector for Lotus Notes Messaging** connection and directory synchronisation between Microsoft Exchange and Lotus Notes V3 and V4 and Domino V4.x.
- **Exchange Connector for IBM OfficeVision/VM Messaging** connection between Microsoft Exchange Server and IBM OfficeVision/VM (PROFS).

Publisher's quoted system requirements:
System with a Intel Pentium 60 or faster microprocessor (Intel Pentium 133 recommended).
Server – Risc-based: System Alpha AXPTM processor or Motorola Power PC 604 processor.
Memory Server – 24MB of memory (32MB recommended).
Client – 8MB of memory (12MB recommended); with Forms Designer, 12MB of memory (16MB recommended). Hard Disk Server – 250MB of available hard disk space (500MB recommended).
Client – 12-22MB of available hard disk space CD-ROM drive. Operating System Microsoft Windows NT Server version 3.51 or later.

Customers now only require 5 licenses to participate in Microsoft's new open 5.0 licensing programme call 08701 633 300 for more details.

www.action.com/microsoft

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
MS Exchange Server 5.5 Standard **5 user**	WIN NT	52-98-74	681.56	➧	683.95	683.27
MS Exchange Server 5.5 Standard **10 user**	WIN NT	38-80-21	926.39	➧	929.95	929.49
MS Exchange Server 5.5 Standard **25 user**	WIN NT	38-80-38	1436.69	➧	➧	1439.95
MS Exchange Server 5.5 Standard **Version Upgrade**	WIN NT	23-47-77	216.40	➧	219.99	218.67
MS Exchange Server 5.5 Standard **Competitive/Product Upgrade**	WIN NT	43-59-05	488.09	➧	489.95	489.95
MS Exchange Server 5.5 Enterprise **25 user**	WIN NT	38-80-52	2446.28	➧	➧	2449.95
MS Exchange Server 5.5 Enterprise **50 user**	WIN NT	38-80-69	3335.66	➧	➧	3339.00
MS Exchange Server 5.5 Enterprise **Upgrade**	WIN NT	38-80-76	560.85	➧	567.95	565.79
MS Exchange Server 5.5 Enterprise **Competitive & Product Upgrade 25 clients**	WIN NT	52-17-70	1190.00	➧	➧	1199.95
MS Exchange Server 5.5 **Product U/G 25 clients**	WIN NT	31-35-58	878.29	➧	879.95	879.59

OTHER ITEMS
FOR MS LICENSING SEE PAGES 793–795
FOR SOFTWARE INDEX SEE PAGES 810–814

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS NT

SERVER/DATABASE

Microsoft

Microsoft SQL Server 7.0 provides the database platform and tools that businesses need for implementing line of business applications by providing a superior-programming platform for developers, automating standard operations to ease the workload on database administrators and providing sophisticated tools for more complex operations.
Version 7.0 is the heart of Microsoft's strategy of making data warehouses and data marts easier to design, build and manage. SQL Server gives even better tools for gathering data from all enterprise sources, building a powerful querying environment for using the data and for distributing this information across the enterprise.
Telecommuting, travelling sales representatives, branch automation – these increasingly common scenarios illustrate the growing reality that computing is going on the move. SQL Server 7.0 is designed specifically to address these mobile-computing requirements, providing scalability from laptop computers to SMP servers, enabling the same application to be deployed on the widest range of options available.



FEATURES:
- The Data Warehousing Framework, the first comprehensive approach to solving the metadata problem.
- First databases to scale from the laptop to the enterprise using the same code base, offering 100% code compatibility.
- First database to support auto-configuration and self-tuning.
- First database with an integrated OLAP server.
- First database with integrated Data Transformation Services.
- First database to provide multi-server management for a large numbers of servers.
- Widest array or replication options of any database.
- Best integration with Windows NT Server, Microsoft Office and BackOffice.

Microsoft Certified Solution Provider Partner

CHECK MEDIA BEFORE YOU BUY

www.action.com/microsoft

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
MS-SQL Server V7.0 **5 users**	WIN NT	46-95-00	1085.29	➧	➧	1089.95
MS-SQL Server V7.0 **10 users**	WIN NT	46-95-55	1525.79	➧	➧	1529.95
MS-SQL Server V7.0 **25 users**	WIN NT	52-98-79	2816.05	➧	➧	2819.95
MS-SQL CAL V7.0 **Competitive/Version Upgrade 5 MLP**	WIN NT	47-98-82	256.10	➧	259.95	259.29
MS-SQL Server CAL V7.0 **5 MLP**	WIN NT	46-95-17	485.79	➧	489.95	488.95
MS-SQL Server Enterprise Edition V7.0 **25 users**	WIN NT	46-95-24	5169.00	➧	➧	5169.00
MS-SQL Server Enterprise Edition V7.0 **50 users**	WIN NT	46-95-31	7349.00	➧	➧	7349.00
MS-SQL Server Enterprise Edition V7.0 **Unlimited Client**	WIN NT	46-95-48	23649.00	➧	➧	23649.00
MS-SQL Server V7.0 Upgrade **5 users**	WIN NT	47-84-81	538.06	➧	539.95	539.41
MS-SQL Server V7.0 Enterprise **Version Upgrade 25 users**	WIN NT	47-98-68	2443.13	➧	➧	2449.00
MS-SQL CAL V7.0 **Competitive/Version Upgrade 20 MLP**	WIN NT	47-98-75	925.79	➧	929.95	929.79
MS-SQL CAL V7.0 **20 MLP**	WIN NT	47-98-99	2125.81	➧	➧	2129.00

OTHER ITEMS
FOR MS BACKOFFICE SEE PAGES 903–904
FOR MICROSOFT LICENSING SEE PAGES 792–795
FOR SOFTWARE INDEX SEE PAGES 810–814

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: DOS, WINDOWS, WINDOWS 95, WINDOWS 98, WINDOWS NT

NETWORK ANTI-VIRUS

network ASSOCIATES Who's watching your network



£47.99
ONLINE
52-34-72

To ensure sustained network performance, you need advanced network monitoring and troubleshooting tools. **Network Associates Sniffer Total Network Visibility (TNV)** is the industry's number one solution for reducing network downtime, according to Infonetics Research. This advanced suite delivers award-winning network problems before they impact users, customers, or your corporate bottom line.

FEATURES:

- Built for today's complex enterprise networks, maintaining peak performance across all LAN and WAN topologies, from 10/100 Ethernet to the latest high-speed ATM and Gigabit backbones, across the enterprise and the Internet.
- Proactively monitors and troubleshoots all layers of the network, from the physical layer to applications layer, all in real time.
- Network Informat reports gives you a complete picture of network health and performance, from bandwidth availability to application utilisation.
- Sniffer Portable Analysis Suite for real-time network analysis.
- Sniffer Distributed Analysis System for integrated expert and RMONM technology.
- DSS/RMON monitors network conversations to identify potential server problems.
- Network Informant Suite reporting total network performance.

Research Support and Virus Updates
Network Associates' world-renowned McAfee Labs conducts research across six continents to provide unparalleled follow-the-sun global research. Virus signature files are updated hourly on the Web as new strains are discovered. The groundbreaking Enterprise SecureCast feature uses client-initiated push or pull technology to send updates directly to your administrator the moment information is released from the labs. Through AutoUpdate, desktop PCs and servers are automatically updated through scheduled pulls from a designated central server. Administrators can also take advantage of the central distribution console to quickly deliver new software upgrades and updates to all clients and servers enterprise-wide.

Customers requiring licensing for 51+ users require Network Associates Total Solutions programme.
Please see page 803 for details.

EXTRA USER LICENSES:
Please call Action's Licensing Desk for pricing for 51+ users. **Call FREE on 08701 63 33 00**

INCORPORATING
DR SOLOMON'S

DESCRIPTION	FORMAT	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Sniffer TNV Suite 100-500 users*	X-Platform	52-34-72	47.99	49.95	49.75	49.49
Sniffer TNV Suite 501-1000 users*	X-Platform	52-20-66	43.19	44.99	44.69	44.39
Sniffer TNV Suite 1001-2000 users*	X-Platform	52-20-67	39.69	40.99	40.79	40.59
Sniffer TNV Suite 2001-3000 users*	X-Platform	52-71-08	36.79	37.99	37.79	37.59
Sniffer TNV Suite 3001-5000 users*	X-Platform	52-50-24	33.59	34.99	34.79	34.59
Sniffer TNV Suite 5001-10000 users*	X-Platform	52-37-19	30.99	31.99	31.89	31.79
Sniffer TNV Suite 10001+ users*	X-Platform	52-77-07	28.99	29.99	29.89	29.79

***Prices are per user.**

OTHER ITEMS
FOR ANTI-VIRUS SOFTWARE SEE PAGES 867, 868, 912, 913
FOR NAI LICENSING SEE PAGE 803

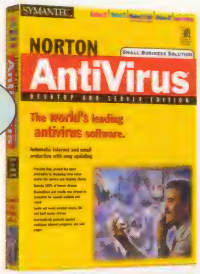
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

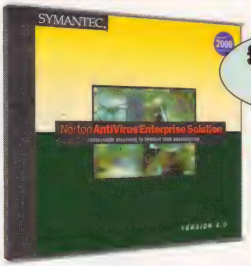
PRODUCTS FOR: DOS, WINDOWS 3.1, 95, 98, 2000, NT

NETWORK ANTI-VIRUS

SYMANTEC.™

£41.95
ONLINE
52-37-41





£190.61
ONLINE
49-76-96

The **Norton AntiVirus Enterprise Solution Suite** is the latest in a family of proven products. Offering unprecedented control of anti-virus protection across your network, from a single console. It includes Norton AntiVirus Corporate Edition 7.0 for state-of-the-art, best-of-breed virus protection.

Publisher's quoted system requirements:
Server: Windows NT Server/Workstation 4.0 or Windows 2000 Server. Novell NetWare 3.1/4.1–5.x.
Client: DOS 5.x and higher, Windows 3.x, Windows 95/98, Windows NT Server/Workstation 4.0 or Windows 2000 Server.

Norton AntiVirus Small Business Solution provides best-of-breed protection centrally managed from a single console. Affords superior protection while you're surfing the Internet as well as automatically scanning incoming attachments in the most popular e-mail programs.

Publisher's quoted system requirements:
Windows 3.1/95/98/2000/NT/DOS. Intel Pentium or higher (or 100% compatible) processor. 16MB of RAM required for Windows 95/98/NT (32MB recommended). 32MB of RAM required for Windows 2000 (64MB recommended). 50MB free disk space required. CD-ROM drive.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Norton AntiVirus Enterprise Solution 10-24 VLP*	X-Platform	52-37-41	41.95	42.95	42.75	42.55	NEW
Norton AntiVirus Enterprise Solution 25-49 VLP*	X-Platform	52-77-44	39.35	39.95	39.85	39.75	NEW
Norton AntiVirus Enterprise Solution 50-99 VLP*	X-Platform	52-65-07	35.35	35.95	35.85	35.75	NEW
Norton AntiVirus Enterprise Solution 100-249 VLP*	X-Platform	52-50-22	25.99	26.95	26.85	26.75	
Norton AntiVirus Enterprise Solution 250-499 VLP*	X-Platform	52-37-17	21.39	21.99	21.89	21.79	
Norton AntiVirus Enterprise Solution 500-999 VLP*	X-Platform	52-77-02	17.99	18.99	18.89	18.79	
Norton AntiVirus Enterprise Solution 1000-2499 VLP*	X-Platform	52-64-90	14.39	14.99	14.89	14.79	
NAV SBS – Desktop/Server **5 users**	DOS/WIN 3.1/ 95/98/2000/NT	49-76-96	190.61	◗	195.95	193.99	NEW
NAV SBS – Desktop/Server **10 users**	DOS/WIN 3.1/ 95/98/2000/NT	49-78-17	384.19	◗	394.95	391.00	NEW
NAV SBS – Desktop/Server **25 users**	DOS/WIN 3.1/ 95/98/2000/NT	49-82-45	958.13	◗	984.95	975.10	NEW
NAV SBS – Desktop/Server **50 users**	DOS/WIN 3.1/ 95/98/2000/NT	49-15-36	1925.83	◗	◗	1959.95	NEW
NAV SBS – Managed Protection Suite **5 users**	X-Platform	49-62-70	226.61	◗	232.95	230.62	NEW
NAV SBS – Managed Protection Suite **10 users**	X-Platform	49-34-78	452.29	◗	464.95	460.30	NEW
NAV SBS – Managed Protection Suite **25 users**	X-Platform	49-91-79	1142.71	◗	◗	1162.95	NEW
NAV SBS – Managed Protection Suite **50 users**	X-Platform	49-52-03	2328.40	◗	◗	2345.95	NEW

*Price per licence

OTHER ITEMS

FOR SYMANTEC LICENSING SEE PAGE 799
FOR SOFTWARE INDEX SEE PAGES 810–814

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS NT, NETWARE

ANTI-VIRUS

SOPHOS ANTI-VIRUS



Sophos is the largest British and European producer of anti-virus software and protects 5 million users world-wide. **Sophos Anti-Virus** software was specifically developed for networked users, although it can also be used on standalone machines and laptops. Its unique client/server approach to virus protection, incorporating Intercheck Technology, protects both servers and workstations in a single integrated process. Offering central installation, configuration, reporting and updating, and with solutions available for Windows NT, NetWare, UNIX, OS/2, OpenVMS, Windows 3.x/95/98/2000 and Macintosh, Sophos Anti-Virus protects any network simply and automatically.

File Server Licences allow the use of the software on a single file server and either 10, 25, 50, 100 or 200 networked PCs. Laptop licences can be added to File Server Licences.

Sophos Anti-Virus licences include:

- SWEEP for server platforms stated (on-demand scanning).
- SWEEP for ALL workstation platforms (on-demand scanning).
- InterCheck Technology (on-access scanning).
- Monthly updates (on CD).
- E-mail notification of new virus identities.
- Free upgrades.
- 24 hour telephone technical support (from UK).

Corporate Licences allow the use of the software on any combination of servers, networked PCs, standalone PCs and laptops, at any end user site, up to the licensed amount. Simply add the number of servers and workstations to get the number of users e.g. 10 servers and 90 workstations would require a 100 user Corporate Licence. Server only cover is not available. This licence also includes free use of the software for employee's home PCs.

DESCRIPTION	FORMAT	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Sophos Anti-Virus File Server Licence **10 user***	WIN NT	43-96-26	362.81	◗	395.00	383.15
Sophos Anti-Virus File Server Licence **25 user***	WIN NT	43-96-33	454.66	◗	495.00	480.15
Sophos Anti-Virus File Server Licence **50 user***	WIN NT	43-96-40	546.51	◗	595.00	577.15
Sophos Anti-Virus File Server Licence **10 user***	NetWare	43-96-57	362.81	◗	395.00	383.15
Sophos Anti-Virus File Server Licence **25 user***	NetWare	43-96-64	454.66	◗	495.00	480.15
Sophos Anti-Virus File Server Licence **50 user***	NetWare	43-96-71	546.51	◗	595.00	577.15
Sophos Anti-Virus Corporate Licence **50 user***	WIN NT	43-96-88	1125.00	◗	◗	1125.00
Sophos Anti-Virus Corporate Licence **100 user***	WIN NT	43-97-05	1800.00	◗	◗	1800.00
Sophos Laptop Licence(File Server Licence add-on)	WIN NT	43-17-60	22.89	23.95	23.71	23.47
Sophos Anti-Virus Corporate Licence **50 user**	NetWare	52-32-80	1125.00	◗	◗	1125.00
Sophos Anti-Virus Corporate Licence **100 user**	NetWare	52-20-60	1800.00	◗	◗	1800.00

***Monthly updates for 1 year.**

OTHER ITEMS

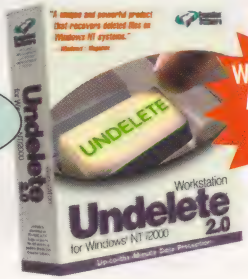
FOR SOFTWARE INDEX SEE PAGES 810–814

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NETWORK MANAGEMENT

Executive Software PowerQuest®

£169.49 ONLINE 47-08-45



WORKSTATION AND SERVER VERSIONS AVAILABLE



£263.95 ONLINE 22-51-90

Your first line of data protection and immediate solution for recovering deleted files, **Undelete 2.0** for Windows NT/2000 gets back all your deleted files, not just the ones that land in the Windows NT/2000 Recycle Bin.
Undelete Server provides file recovery on the machine it is installed on, and the added functionality of allowing system administrators to connect to and run every **Undelete Workstation** installed on PCs on the entire NT/2000 network.

FEATURES:

- Fast search feature and expanded directory structure allows you to quickly recover files.
- Two pane GUI makes managing files easy.
- Safely replaces the Windows NT/2000 Recycle Bin.
- Captures all files deleted, including those from applications that normally bypass the Recycle Bin.
- Emergency Undelete program can be run from the CD to recover files directly from the disk before installing Undelete 2.0.

Publisher's quoted system requirements:
Undelete Workstation 2.0: ×86 or higher running Windows NT 4.0 (Service Pack 3 or higher) or Windows 2000 Professional. Note: Undelete Workstation can not be installed on Windows NT or Windows 2000 server. **Undelete Server 2.0:** ×86 or higher running Windows NT Server or Workstation version 4.0 (Service Pack 3 or higher), or Windows 2000 Professional or Server.

As the only network management tool with the power to safely and painlessly upgrade your hard drive and modify your server's partitions on-the-fly, **ServerMagic 3.0** lets you quickly copy and expand entire NetWare®, NT Server and DOS partitions directly from one hard drive to another. All without losing a single trustee right, directory setting or byte of data. New version 3.0 now manipulates your NetWare volumes and shrinks, expands and merges volume segments.

FEATURES:

- Easily clone your servers and image entire servers for disaster recovery.
- Move or copy the entire NetWare or Windows NT environment, including hidden files and all directory settings.
- Resize, copy or move FAT, FAT32, HPFS 386, NetWare and NTFS Servers partitions on the fly.
- Move, resize, merge and delete NetWare column segments.
- SmartSector technology dramatically speeds up the copy process by addressing only sectors containing data.
- Quickly restore images files from removable media or network drive and resized to fit larger drives.

Publisher's quoted system requirements:
486 processor or better. NT/NetWare operating system. CD-ROM drive. 16MB RAM.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Undelete Server 2.0	WIN 2000/NT	47-08-45	169.49	➧	174.95	172.95	NEW
Undelete Server 2.0 **5 User**	WIN 2000/NT	47-39-01	754.95	➧	759.95	758.95	NEW
Undelete Workstation 2.0	WIN 2000/NT	47-27-77	31.39	32.49	32.29	32.19	NEW
Undelete Workstation 2.0 **5 user**	WIN 2000/NT	47-36-86	155.79	➧	157.29	157.19	NEW
ServerMagic Standad 3.0 – **1 user**	WIN NT/NetWare	22-51-90	263.95	➧	268.95	267.95	

OTHER ITEMS

FOR SOFTWARE INDEX SEE PAGES 810–814

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS NT

SECURITY SOFTWARE

NetPartners content technologies



£1606.95 ONLINE 43-98-91

30 DAY EVALUATION SOFTWARE AVAILABLE



£604.95 ONLINE 43-98-15

Content Technologies MIMEsweeper is the world's leading mail content security package. MIMEsweeper protects against the downloading of viruses or hostile applets contained in e-mails, supports lexical analysis to offer protection against cyberliability, profanity or undesirable communications. In addition, it can prevent 'spamming', sanitise cookies, supplement URL filtering, add legal disclaimers and manage the archiving of e-mail.
The product consists of **two modules that can be purchased separately:** WEBsweeper for web/ftp content security and MAILsweeper for e-mail content security.

WEBsweeper the Web content analysis module, undertakes control of Web-borne threats. It stops Web and FTP viruses; blocks specified URLs and Java applets and scripts and sanitises cookies.

MAILsweeper can protect users' environments from e-mail threats before they reach their mail client and compromise business. It stops e-mail viruses and macro bombs and eliminates junk e-mail. MAILsweeper also adds legal disclaimers and archives e-mail.

Publisher's quoted system requirements:
NT 4.0 or above, P200 or above, minimum 500MB hard disk and 64MB memory, preferred choice of anti-virus tool.

Net Partners WebSense is a subscription-based product that allows network administrators to monitor and control access to the Web. Each access is checked against a database of 650,000+ URLs, the largest and most comprehensive database of its kind, which is classified into 30 different categories.

Depending on the policy defined by the user, WebSense will either allow or bar access. Access can be denied at page level, not just by URL. The database is updated every 24 hours via an automatic download. A range of management reports are available detailing access by URL, user profiles, accesses denied etc.

Publisher's quoted system requirements:
Windows NT 4.0 or above, Intel x86 processor or above and 32MB memory.

For 1,000+ users, please call Action's Licensing Team on 0871 63 33 00. Subscription-based service for one, three and five year contracts available. 20% discount for educational users.

DESCRIPTION	FORMAT	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
MAILsweeper **1-50 Users**	WIN NT	43-98-53	1079.99	➧	➧	1093.99
MAILsweeper **51-100 Users**	WIN NT	43-98-77	1962.99	➧	➧	1993.95
WEBsweeper **1-50 Users**	WIN NT	43-98-60	1074.99	➧	➧	1093.95
WEBsweeper **51-100 Users**	WIN NT	43-98-84	1953.95	➧	➧	1993.95
MAILsweeper & WEBsweeper **1-50 Users**	WIN NT	43-98-91	1606.95	➧	➧	1637.95
MAILsweeper & WEBsweeper **51-100 Users**	WIN NT	43-99-01	2957.95	➧	➧	2988.95
Net Partners WebSense **50 user**	WIN NT	43-98-15	604.95	➧	618.95	616.95
Net Partners WebSense **100 user**	WIN NT	43-98-22	1159.95	➧	➧	1209.95

OTHER ITEMS

FOR SOFTWARE INDEX SEE PAGE 810–814

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 2000, WINDOWS 95, WINDOWS 98, WINDOWS NT

FAX SERVER SOFTWARE

equisys ZETAfax

Zetafax 6 is easy to use, reliable corporate fax software from the UK's largest fax software company – Equisys. It can be adapted to suit any work environment from a small business to a large corporation and can be installed on laptop computers for use away from the office. Send and receive faxes just like email using the Zetafax email gateway. Zetafax integrates with Microsoft Exchange, Microsoft Mail, Lotus Notes, Lotus cc:Mail and Novel GroupWise. Zetafax fax enables most popular software packages (Microsoft Word/Excel/ PowerPoint and may more). It also operates in an application server environment (Citrix MetaFrame™ and WinFrame® software, as well as Microsoft Windows NT Server 4.0 and Terminal Server Edition.

Lease Cost Routing (LCR) features help companies with multiple locations reduce faxing costs. Zetafax software is suitable for Windows 2000, Windows NT and Windows 95/98. It runs on Windows NT server, Novell NetWare and just about every other PC network.



FEATURES:

- Easy to install, manage and use.
- Automatic inbound routing supported using DID numbers.
- Operates in an application server environment (Citrix MetaFrame™ and WinFrame, Microsoft Windows NT Server 4.0, Terminal Server Edition.
- Integrates with Microsoft BackOffice and Microsoft Small Business Server.
- Seamless e-mail integration.
- Powerful ODBC address book options.
- Least Cost Routing (LCR).
- Laptop installation.
- Supports Brooktrout and Dialogic intelligent fax boards.
- Supports most class 1, 2 and 2.0 fax modems.
- Adaptable from five to thousands of users.
- Coversheet editor.
- API toolkit option for advanced integration.

Visit **www.equisys.com** for free evaluation software

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Zetafax 6 2 line starter system **5 user**	WIN 95/98/2K/NT	49-17-63	322.75	◗	329.85	328.75
Zetafax 6 2 line starter system **10 user**	WIN 95/98/2K/NT	49-94-77	453.25	◗	464.95	462.25
Zetafax 6 2 line starter system **25 user**	WIN 95/98/2K/NT	49-17-18	934.95	◗	942.95	940.95
Zetafax 6 2 line starter system **50 user**	WIN 95/98/2K/NT	49-70-22	1347.95	◗	◗	1395.95
Zetafax 6 2 line starter system **100 user**	WIN 95/98/2K/NT	49-22-64	1882.95	◗	◗	1886.95
Zetafax 6 2 line starter system **150 user**	WIN 95/98/2K/NT	49-49-48	2433.09	◗	◗	2469.95
Zetafax 6 2 line starter system **200 user**	WIN 95/98/2K/NT	49-12-47	2802.49	◗	◗	2844.95
Zetafax 6 2 line starter system **300 user**	WIN 95/98/2K/NT	49-08-39	3524.44	◗	◗	3559.95
Zetafax 6 2 line starter system **400 user**	WIN 95/98/2K/NT	49-38-95	4248.60	◗	◗	4269.95
Zetafax additional line add-on license	WIN 95/98/2K/NT	49-36-81	453.72	◗	469.95	465.25
Zetafax Unlimited line add-on license	WIN 95/98/2K/NT	49-98-34	870.58	◗	894.95	886.00
Zetafax Application Programmers Interface (A.P.I.) Toolkit	WIN 95/98/2K/NT	49-53-55	453.72	◗	469.95	465.25

OTHER ITEMS

FOR SOFTWARE INDEX SEE PAGES 810–814

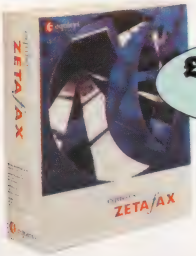
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

FAX SERVER SOFTWARE

equisys ZETAfax



£284.77
ONLINE
49-32-09

Please call for information on Zetafax products.
Visit www.equisys.com for free evaluation software.

DESCRIPTION	FORMAT	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Zetafax 5 additional user license	WIN 95/98/NT	49-32-09	284.77	➧	294.95	292.00
Zetafax 10 additional user license	WIN 95/98/NT	49-54-67	415.10	➧	429.95	425.65
Zetafax 25 additional user license	WIN 95/98/NT	49-95-51	907.50	➧	939.95	930.55
Zetafax 50 additional user license	WIN 95/98/NT	49-70-82	1365.27	➧	➧	1399.95
Zetafax 100 additional user license	WIN 95/98/NT	49-28-15	1852.88	➧	➧	1899.95
Zetafax 150 additional user license	WIN 95/98/NT	49-37-16	2462.64	➧	➧	2499.95
Zetafax 200 additional user license	WIN 95/98/NT	49-98-61	2856.67	➧	➧	2899.95
Zetafax 300 additional user license	WIN 95/98/NT	49-55-47	3564.04	➧	➧	3599.95
Zetafax 400 additional user license	WIN 95/98/NT	49-76-82	4278.45	➧	➧	4299.95
Zetafax 500 additional user license	WIN 95/98/NT	49-64-79	4775.95	➧	➧	4799.95
Upgrade to Zetafax 6 for systems with 1 user	WIN 95/98/NT	49-19-23	69.73	72.95	72.22	71.50
Upgrade to Zetafax 6 for systems with up to 5 users	WIN 95/98/NT	49-55-46	139.95	➧	144.95	143.50
Upgrade to Zetafax 6 for systems with up to 10 users	WIN 95/98/NT	49-50-23	183.39	➧	189.95	188.05
Upgrade to Zetafax 6 for systems with up to 25 users	WIN 95/98/NT	49-96-10	372.62	➧	385.95	382.09
Upgrade to Zetafax 6 for systems with up to 50 users	WIN 95/98/NT	49-19-24	559.93	➧	579.95	574.15
Upgrade to Zetafax 6 for systems with up to 100 users	WIN 95/98/NT	49-54-73	762.67	➧	789.95	782.05
Upgrade to Zetafax 6 for systems with up to 150 users	WIN 95/98/NT	49-71-30	926.80	➧	959.95	950.35
Upgrade to Zetafax 6 for systems with up to 200 users	WIN 95/98/NT	49-23-56	1131.21	➧	➧	1159.95
Upgrade to Zetafax 6 for systems with up to 300 users	WIN 95/98/NT	49-50-26	1414.03	➧	➧	1449.95
Upgrade to Zetafax 6 for systems with up to 400 users	WIN 95/98/NT	49-13-23	1687.09	➧	➧	1729.95
Upgrade to Zetafax 6 for systems with up to 500 users	WIN 95/98/NT	49-09-04	1882.13	➧	➧	1929.95
Upgrade for API Toolkit (for 5.5 and previous versions users)	WIN 95/98/NT	49-39-45	139.95	➧	144.95	143.50

OTHER ITEMS

FOR SOFTWARE INDEX SEE PAGES 810–814

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS NT

STORAGE SOLUTIONS

COMPUTER ASSOCIATES



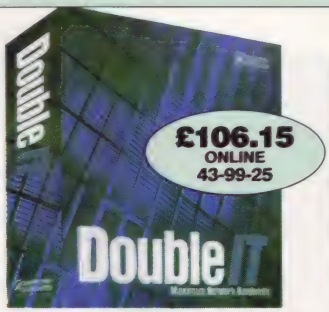
AimIT – Asset and Inventory Management

AimIT is a comprehensive solution for managing computing assets throughout a networked environment. AimIT provides system-wide policy-based management by combining ease-of-use with advanced functionality including automated hardware and software inventory, configuration management, advanced scripting tools, extensive reporting, software metering and auditing.

FEATURES:

- Locking configurations.
- Reporting tool.
- Scheduling.
- Dynamic grouping.

Publisher's quoted system requirements:
5MB disk space, 32MB RAM. Windows 95, 98, NT 3.51 and 4.0.



DoubleIT – Maximum Network Bandwidth

As computing power increases, network performance becomes increasingly reliant on available bandwidth. Additional network hardware and increased wide-area links are often too cost-prohibitive to be a viable solution. DoubleIT provides additional bandwidth and optimises performance by automatically and transparently compressing data across your entire network.

FEATURES:

- Software-based compression.
- Single setup for all platforms.
- Automatic compression capability discovery.

FOR CA/OLP LICENSING PROGRAMME DETAILS, SEE PAGE 805



ShipIT – Automated Software Delivery

ShipIT provides hands-free automated distribution, installation and upgrades of software applications, operating systems and files. Providing the broadest support for platforms and advanced distribution techniques, this scalable solution offers comprehensive world-class software administration.

FEATURES:

- AutoScript Generator/Reverse Engineering.
- Distribution Groups.
- Dynamic Groups (AimIT Integration).
- Wake-On-LAN.

Publisher's quoted system requirements:
Windows 95, NT 3.51 or 4.0 server or workstation.

DESCRIPTION	FORMAT	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
AimIT Workgroup Edition V3.0 Single **250 clients**	WIN NT SVR	43-99-18	415.10	➧	429.95	425.65
DoubleIT Workgroup Edition V1.06 **5 clients**	WIN NT SVR	43-99-25	106.15	➧	109.95	108.85
DoubleIT Workgroup Edition V1.06 **50 clients**	WIN NT SVR	43-99-32	801.29	➧	829.95	821.65
ShipIT Workgroup Edition V2.0 Single **250 clients**	WIN NT SVR	43-99-49	415.10	➧	429.95	425.65
ServiceIT Workgroup Edition, Single NT Server, Up to 3 Analyst	WIN NT SVR	49-96-06	4289.20	➧	➧	4299.95
GuardIT Workgroup Edition V1.01 Firewall, Unlimited Sessions	WIN NT SVR	43-99-70	1228.73	➧	➧	1259.95

OTHER ITEMS

FOR COMPUTER ASSOCIATES LICENSING SEE PAGE 805

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

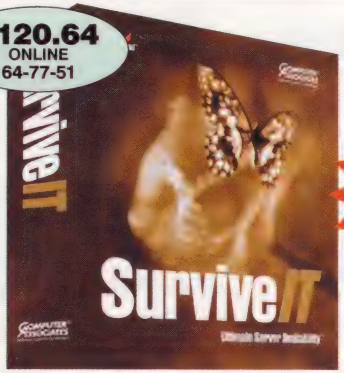
NEW item on this page

PRODUCTS FOR: WINDOWS 2000, WINDOWS NT

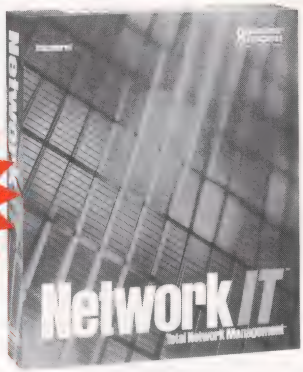
TAPE BACK-UP

COMPUTER ASSOCIATES

£120.64
ONLINE
64-77-51



FOR CA/OLP LICENSING PROGRAMME DETAILS, SEE PAGE 805



SurviveIT for Windows NT is an intelligent tool for real time replication between servers. ServerIT allows organisations to continue to operate their most critical applications and services in the event of hardware failures, natural disasters and/or human errors. SurviveIT provides the ability for another server to automatically take on the tasks of a failed server.

FEATURES:

- **Intelligent failure detection:** seeks confirmation of failure via an optional serial port link between primary and secondary servers.
- **Easy, flexible administration:** 'wizards' guide you through all setup tasks. Administrators can configure to protect anything from a single directory to an entire volume.
- **Cost effective:** a single secondary server can protect any number of primary servers, assuming each one's identity when necessary.

Publisher's quoted system requirements:
Windows NT Server or Workstation 4.0 (running Service Pack 3, 4 or 5) 32MB RAM. 10MB disk space for SurviveIT with additional space for file replication. LAN connection.

Network/*IT* Advanced Edition addresses today's eBusiness needs by providing the ability to establish a powerful centralised solution for managing of today's networking infrastructure in one integrated solution. It enables administrators to proactively manage the environment by providing operational availability, and network management in a business context.

FEATURES:

- **Supports all Major Network Protocols** including TCP/IP, IPX, SNA, and DECnet, delivering a comprehensive network management solution for heterogenous enterprises.
- **Enterprise Discovery and Classification** automatically discovers and classifies all networked devices and assets, then builds an intuitive topology map based on the results.
- **Manage networks in an eBusiness context** by aligning net-work managment with your business objectives and ensuring that the priorities used for managing the network are the same as those used for managing your business.

Network/*IT* Advanced Edition Option Pack offers extended functionality and manageability to today's business owners.

CHECK MEDIA BEFORE YOU BUY

	DESCRIPTION	FORMAT	CAT NO CD-ROM	www.action.com/ca Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	Survive/*IT* 4.5 Advanced Edition	WIN NT	53-77-48	972.72	◗	999.95	989.95
	Survive/*IT* Upgrade from ARCServe Replications 4.0	WIN NT	64-77-51	120.64	◗	124.95	123.70
NEW	Network/*IT* 2.0 Advanced Edition – Up to 1000 IP's	WIN 2K/NT	49-56-24	CHECK ONLINE	FREE Call	FREE Call	FREE Call
NEW	Network/*IT* 2.0 Advanced Edition – Unlimited IP's	WIN 2K/NT	49-96-59	CHECK ONLINE	FREE Call	FREE Call	FREE Call
NEW	Network/*IT* 2.0 Advanced Edition – Options pack 1000 IP's	WIN 2K/NT	49-71-63	CHECK ONLINE	FREE Call	FREE Call	FREE Call
NEW	Network/*IT* 2.0 Advanced Edition – Options pack Unlimited IP's	WIN 2K/NT	49-23-91	CHECK ONLINE	FREE Call	FREE Call	FREE Call

OTHER ITEMS

FOR CA LICENSING SEE PAGE 805
FOR SOFTWARE INDEX SEE PAGES 810–814

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: DOS, WINDOWS, WINDOWS 95, WINDOWS NT, NETWARE, MAC

NETWORK UTILITIES

COMPUTER ASSOCIATES

InoculateIT for NetWare provides state-of-the-art detection, locating all known (and many unknown) virus types, including boot sector, file multipartite, macro, stealth and polymorphic.

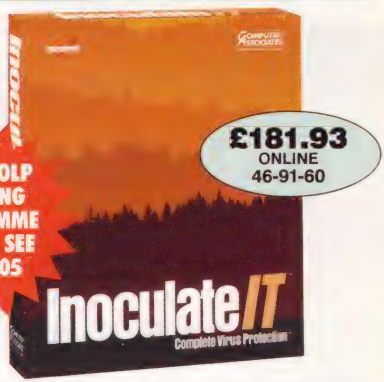
FEATURES:

- **Real-time cure** – real-time scanning enhanced with option to automatically cure infected files.
- **Virus wall** – prevents overwriting existing uninfected files with infected versions of the same name.
- **Real-time floppy scan** – floppy disks are automatically scanned in real-time when accessed.
- **Command Line Support** – InoculateIT commands can be included in batch files, scripts and macros.
- **Extensive Alerting Options** – virus alerts can be sent via network broadcast, SNMP, MS Mail, MS Exchange, pager or printed trouble ticket.
- **Antivirus Agents for Lotus Notes** – exclusive InoculateIT agent that can detect and cure viruses in e-mail and database document attachments while the messaging systems are live and running.
- **ICSA Certification** – detects 100% of the viruses in the wild and meets guidelines established by International Computer Security Association (ICSA).

Publisher's quoted system requirements:
Workgroup Edition: 16MB RAM; 8MB disk space. Windows NT 3.51 or higher. NetWare Edition: 2MB disk space; 16MB RAM. Novell NetWare 3.x, 4.x, 5.0.

CHECK MEDIA BEFORE YOU BUY

FOR CA/OLP LICENSING PROGRAMME DETAILS, SEE PAGE 805



InoculateIT 4.53, a comprehensive server-based anti-virus program designed to protect your Novell or NT network. Inoculan's client/server architecture simplifies administration, enhances security, and minimises network impact. It offers an unbreakable barrier designed to stop viruses in real-time, preventing them from getting into or out of your file server.

FEATURES:

- Single Server-based architecture.
- Real-time monitor (NLM only).
- Free monthly virus updates.
- Critical disk area protection.
- DOS & MAC client support.
- ARCserve integration.
- Automatic installation from www BBS and FTP sites.

www.action.com/ca

DESCRIPTION	FORMAT	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
InoculateIT 4.5 for NetWare Workgroup Ed.	NetWare	46-91-60	181.93	➧	184.95	183.84
InoculateIT 4.53 for NetWare **Unlimited user**	NetWare	46-91-84	289.59	➧	299.95	296.95
InoculateIT 4.53 for NT Workgroup Edition	WIN NT	43-91-38	225.35	➧	238.99	231.82
InoculateIT 4.53 NT Advanced Edition	WIN NT	49-39-11	252.87	➧	259.95	257.35
InoculateIT 4.53 Client Pack – **10 user**	DOS/Win3.x/95/ WIN NT/MAC	49-36-97	171.55	➧	174.99	173.24
InoculateIT 4.53 Client Pack – **25 user**	DOS/Win3.x/95/ WIN NT/MAC	49-34-71	250.97	➧	259.95	257.35
InoculateIT 4.53 Client Pack – **100 user**	DOS/Win3.x/95/ WIN NT/MAC	49-91-74	799.65	➧	811.99	805.95
InoculateIT 4.53 Client Pack – **250 user**	DOS/Win3.x/95/ WIN NT/MAC	49-51-98	1706.59	➧	➧	1749.95

OTHER ITEMS

FOR MS WINDOWS 2000 SEE PAGES 899–902
FOR CA LICENSING SEE PAGE 805

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW *item on this page*

PRODUCTS FOR: NETWARE, WINDOWS NT

TAPE BACK-UP

COMPUTER ASSOCIATES

£245.87
ONLINE
49-40-12

NOW AVAILABLE FOR LINUX



ARCServeIT, the number one selling storage solution for Novell networks world-wide, delivers seamless management of mission-critical data. It supports DOS, OS/2, Windows and Windows 95 workstations, and offers optional solutions for UNIX, Macintosh and Windows NT servers and workstations.

FEATURES:
- Pre-Flight Check.
- Easy Interface with Advanced Guidance.
- Integrated NCSA Certified Virus Scanning Engine.
- Central Administration.
- Disaster Recovery Option.

Workstation	=	**1 user**
Workgroup	=	**25 users**
Advanced Edition	=	**Unlimited users**

The **ARCServeIT 6.6** version for NT includes new features that enhance its ease-of-use, manageability, automation, performance and security.
With version 6.6, users will benefit from end-to-end data compression, centralised ARCserveIT database, ODBC database as an alternative to the ARCserveIT standard database, and more.

FEATURES:
- Performance (RAID with Tape Libraries, Snapshot Image, Intelligent Data Compression).
- Remote Disaster Recovery.
- Data Migration Option (HSM).
- Inclusion of Unicenter TNG Framework.
- Application backup agents – Infomix, OpenIngres, support for Oracle 8, and Brick level backup for Exchange.
- Products will run on Intel platforms.

Publisher's quoted system requirements:
Microsoft Windows NT 3.5x or above.
Memory: 16MB, 24MB recommended.
Storage: 10MB.
Supported Devices: 4mm (DAT), 8mm, QIC, DLT Optional autochanger support.
File Server Requirements for ARCserveIT
Novell NetWare 3.x or 4.x (Windows NT for NT version). Memory: 4MB of RAM required by ARCserveIT. Storage: 4MB or 14MB if ARCserveIT Manager is installed on the file server.

Customers who purchase V6.61 for NT/2000 boxed or OLP format are entitled to free 1 year upgrade protection from 9th May to 31st July.

	DESCRIPTION	FORMAT	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	ARCserveIT 6.61 Workgroup Edition	WIN NT	49-40-12	245.87	◆	249.95	248.45
	ARCserveIT 6.61 Advanced Edition	WIN NT	49-22-86	505.79	◆	519.95	514.75
	ARCserveIT 6.6 **10 users**	NetWare	46-92-25	196.69	◆	199.95	198.75
	ARCserveIT 6.6 Single Server Edition	NetWare	46-91-91	285.22	◆	289.95	288.21
	ARCserveIT 6.6 Workgroup Edition	NetWare	46-92-18	324.57	◆	329.95	327.97
	ARCserveIT 6.6 Enterprise Edition	NetWare	46-92-32	688.53	◆	699.95	695.75
	ARCserveIT 6.6 **10 user** upgrade from ARCserve 10 user	NetWare	46-92-70	62.08	64.95	64.30	63.66
	ARCserveIT 6.6 Workgroup Edition **upgrade** from ARCserve Workgroup Edition or ARCserve 4.x, 5.x, 6.x Single server for NetWare	NetWare	46-92-87	125.46	◆	129.95	128.65
	ARCserveIT 6.6 Workgroup Edition **upgrade** from Intranetware for Small Business or ARCserve **10 user**	NetWare	46-93-04	194.50	◆	199.95	197.95
NEW	ARCserveIT 6.61 Advanced Edition	Linux	49-50-50	CHECK ONLINE	FREE Call	FREE Call	FREE Call
NEW	ARCserveIT Advanced Ed. Tape Library Option	Linux	49-13-45	CHECK ONLINE	FREE Call	FREE Call	FREE Call

OTHER ITEMS

FOR CA LICENSING SEE PAGE 805
FOR SOFTWARE INDEX SEE PAGES 810–814

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: NETWARE, WINDOWS NT

BACK-UP AGENTS

COMPUTER ASSOCIATES

Backup Agent for Open Files
Traditional problems of backing up open files are now a thing of the past, thanks to CA's Backup Agent for Open Files. The Open Files Backup Agent's patented technology enables ARCserveIT to bypass the constraints imposed by the operating system so that files are not skipped during back-up.

Application Agent Options
CA has developed add-on modules for ARCserveIT to perform on-line back-ups on several systems including Microsoft SQL server databases and Microsoft Exchange Server e-mail post offices.

Anti-Virus Options
CA Anti-Virus agents detect and cure viruses in documents attached to Notes and Exchange e-mail and document databases.

Disaster Recovery Options
The Disaster Recovery Option is fully integrated with ARCserveIT so any logical or image session can be used to perform the recovery. There are no special back-up procedures required.

Storage Options for ARCserveIT 6.61 for Windows NT
RAID Option combines the advantages of a software tape RAID solution with one tape library.
On **Image Option** the "Snapshot" feature backs up volumes being accessed by active applications, eliminating the need to close applications during image back-up. **Tape Library Option** supports single- or multiple-drive tape library devices. Tape Library can be used with ARCserveIT **RAID Option**.

ARCserveIT® Replication Option for Windows NT provides non-stop access to data even if a server suffers catastrophic damage. ARCserveIT Replication automatically detects any server interruption and switches to the secondary server.

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
BACKUP AGENT FOR OPEN FILES					
CA NT Backup Agent for Open Files 6.61 CD	49-18-48	313.73	➧	324.95	321.70
CA NetWare Backup Agent for Open Files 6.6 CD	47-56-97	340.42	➧	349.95	346.45
CA DATABASE AGENTS (BA) FOR NETWARE					
BA V2.0 for ORACLE Server (up to oracle 7.2.2.4) 3½" disk	84-60-37	1061.15	➧	➧	1079.95
BA V2.0 for Sybase SQL Server (ARCserve WIN edition only) 3½" disk	84-60-51	476.84	➧	479.95	478.75
CA DATABASE AGENTS FOR NT					
BA for ORACLE Server for NT 6.61 CD	49-12-70	386.14	➧	399.95	395.95
BA for MS Exchange Server for Win NT 6.61 CD	49-76-69	386.14	➧	399.95	395.95
BA for Lotus Notes for Win NT 6.61 CD	49-54-48	386.14	➧	399.95	395.95
BA for MS SQL Server (V6 & above) for Win NT 6.61 CD	47-56-42	386.14	➧	399.95	395.95
INOCULATE IT OPTIONS					
Anti-Virus Agent V4.53 for Lotus Notes CD	49-62-60	279.94	➧	289.95	287.05
Anti-Virus Agent V4.53 for Microsoft Exchange Server CD	49-31-84	279.94	➧	289.95	287.05
DISASTER RECOVERY OPTIONS					
Disaster Recovery for Windows NT	49-82-36	207.53	➧	214.95	212.80
STORAGE OPTIONS FOR ARCSERVEIT 6.61 FOR NT					
RAID Option for ARCserveIT 6.61 for NT	49-08-59	381.31	➧	394.95	391.00
Image Option for ARCserveIT 6.61 for NT	49-64-76	381.31	➧	394.95	391.00
Tape Library Option for ARCserveIT 6.61 for NT	49-78-09	270.28	➧	279.95	277.15
ARCserveIT Replication 6.61 Option for NT	49-15-27	743.37	➧	769.95	762.25

OTHER ITEMS
FOR NOVELL NETWARE SEE PAGES 905, 906
FOR CA LICENSING SEE PAGE 805
FOR SOFTWARE INDEX SEE PAGES 810–814

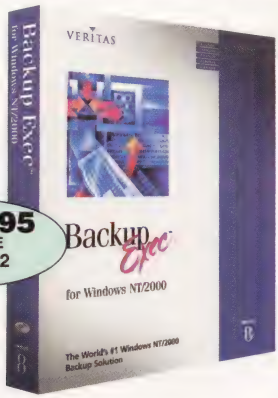
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT, WINDOWS 2000

STORAGE MANAGEMENT

VERITAS



£293.95
ONLINE
49-19-62

VERITAS Backup Exec™ 8.0 for Windows NT and Windows 2000 is the first solution to support both Windows NT and Windows 2000 operating systems. Now in its sixth-generation, Backup Exec is a high performance, easy-to-use, flexible network backup solution that is currently protecting millions of NT servers worldwide.

FEATURES:

- Complete support for Windows 2000 with full protection of the operating system, including Active Directory, Distributed File System, NTFS® new structure and System Slate components.
- Enhanced virus protection; pre-scans for viruses and cleans files, including zip files, before backup.
- Advanced Autoloader Support maximises backup performance and minimises administration. Now includes single drive/unlimited slot autoloader support for added flexibility.
- Increases performance and reduces network traffic/backup time using VERITAS® exclusive Agent Accelerator™ technology*, with distributed processing and source compression.
- Support for Storage Area Networks (SAN) with the Shared Storage Option* which allows individual tape drives and/or libraries to be shared dynamically between Backup Exec servers.
- Additional Options Include: Network Storage Executive™, Intelligent Disaster Recovery™ Option, Agent for Microsoft Exchange Server, Agent for Microsoft SQL Server, Library Expansion Option, Agent for Oracle Server, Agent for Lotus Domino™, Agent for R/3™ for Oracle Server, RAIDirector™ and IBM ADSM Option.*

*Sold separately.

CHECK MEDIA BEFORE YOU BUY

FOR DETAILS ON VERITAS LICENSING SEE PAGE 801

www.action.com/veritas

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Backup Exec 8.0	WIN NT/ 2000 Server	49-19-62	293.95	▶	298.95	297.95
Backup Exec 8.0	WIN NT/2000 Advanced Server	49-55-70	439.95	▶	449.90	448.95
Backup Exec 8.0 Library Expansion	WIN NT/ 2000 Server	49-19-64	367.95	▶	373.95	372.95
Backup Exec 8.0 SQL Agent	WIN NT/ 2000 Server	49-71-38	293.95	▶	298.95	297.95
Backup Exec 8.0 Exchange Agent	WIN NT/ 2000 Server	49-23-65	255.95	▶	260.95	259.95
Backup Exec 8.0 Intelligent Disaster Option	WIN NT/ 2000 Server	49-50-32	181.49	▶	184.95	183.95
Backup Exec 8.0 Open File Option	WIN NT/ 2000 Server	49-13-29	257.49	▶	259.95	259.49
Backup Exec 8.0 Share Storage Option	WIN NT/ 2000 Server	49-09-08	593.95	▶	598.95	597.95
Backup Exec 8.0 Agent Accelerator 3 pack	WIN NT	49-39-49	257.49	▶	259.95	259.49
Backup Exec for Desktop 98 4.2	WIN 95/98	49-18-83	37.99	39.95	39.55	38.99

OTHER ITEMS

FOR VERITAS LICENSING SEE PAGE 801

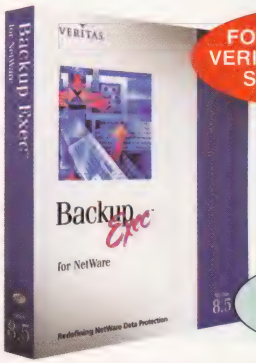
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶Save £££'s!
▶▶Check live stock
▶▶Track order status

PRODUCTS FOR: DOS, WINDOWS, NETWARE

STORAGE MANAGEMENT

VERITAS

VERITAS Backup Exec for NetWare V8.5 features complete NDS support, providing powerful data protection for large and small business alike. Options for Intelligent Disaster Recovery, Autoloader, Open File backup and Oracle databases deliver comprehensive data protection for all servers. The Intelligent Disaster Recovery Option provides quick point-in-time CD-based and One Button Disaster Recovery for local and remote NetWare servers.
In networks equipped with VERITAS Global Data Manager, Backup Exec may be monitored from a central console. With the Multi-Server Edition, included agents for Windows NT, UNIX, Linux and Macintosh servers provide cross platform protection. Strict adherence to standards, proven NetWare expertise, and over a decade of refinements provide data security you can count on.



FOR DETAILS ON VERITAS LICENSING SEE PAGE 801

£285.49
ONLINE
49-55-22

FEATURES

- Tape Mirror allows users to simply make identical backup and off-site tape copies simultaneously.
- Holiday Calender offers users the ability to specify days during which the Backup Exec job scheduler will be taken off-line.
- Linux Agent provides the capability of backing up network workstations and servers running many popular versions of the Linux operating system. Current supported Linux versions include Red Hat Linux and SuSE Linux.
- Enhanced Intelligent Disaster Recovery Option supports NSS volumes and is able to recreate NSS volumes during a disaster recovery operation. Disaster recovery may now be accomplised via diskette, CD-ROM, or OBDR (HP drives only).
- Enhanced Open File Option provides added support for open files via the Open File Option for NetWare 5 solution. This solution extends the support for backing up open files from NetWare 3.12 to 5.0.
- Integration of VERITAS Global Data Manager.
- Agent Accelerator technology shortens backup time for remote NetWare 3.x, 4.x, 5.0.
- Working Set Backup automatically tracks and restores the most recent work to accelerate the protection and recovery of daily work.

To extend the functionality of VERITAS Backup Exec, additional modules are available to provide support for disaster recovery, on-line backup of databases and messaging systems, open file backup, RAID fault tolerance and autoloaders (tape libraries). See below for a listing of available options.

CHECK MEDIA BEFORE YOU BUY

www.action.com/veritas

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
VERITAS Backup Exec 8.5 for – Single Server	NetWare	49-55-22	285.49	◗	288.95	287.49
VERITAS Backup Exec 8.5 for Multi-server Edition	NetWare	49-95-94	527.95	◗	538.95	537.95
VERITAS Backup Exec Workstation Edition V5.5	DOS/Win3.x	44-82-77	57.39	58.95	58.49	58.29
VERITAS BACKUP EXEC NETWARE – MODULES						
VERITAS Backup Exec for NetWare Auto-Loader Module 8.5	NetWare	49-09-01	269.95	◗	274.95	273.95
VERITAS Open File Manager for NetWare SFT III 8.5	NetWare	49-13-20	283.95	◗	288.95	287.95
VERITAS Intelligent Disaster Recovery Option 8.5	NetWare	49-50-21	233.95	◗	238.95	237.95
VERITAS Shared Storage Option Starter Pack 8.5	NetWare	49-39-43	1969.95	◗	◗	1997.95

OTHER ITEMS

FOR VERITAS LICENSING SEE PAGE 801

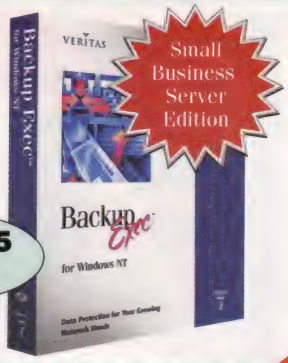
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS NT

STORAGE MANAGEMENT

VERITAS



£293.95
ONLINE
49-37-07

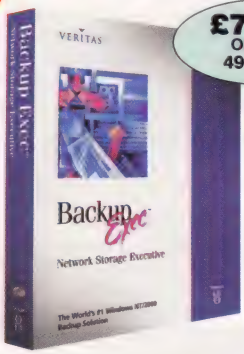
VERITAS Backup Exec Small Business Server Suite for Windows NT
The complete data protection suite for Microsoft BackOffice Small Business Server. VERITAS Backup Exec Small Business Server Suite provides you with essential data protection and management tools. It incorporates features for automated backup of the entire Small Business Server and all computer-based information including Exchange Server, SQL Server and Internet Information Server components. The suite includes VERITAS Software's exclusive Intelligent Disaster Recovery™ feature which fully recovers Microsoft Small Business Server and all business information in case of unexpected equipment failure or natural disaster.

FOR DETAILS ON VERITAS LICENSING SEE PAGE 801

VERITAS Backup Exec™ 8.0 Network Storage Executive™ (NSE) is a powerful management tool designed to greatly enhance the functionality of VERITAS Backup Exec for Windows NT. Backup Exec NSE unifies multiple independent Backup Exec servers into a single storage domain to create one central point of administration and control under a single NSE Master. Backup Exec NSE provides an easy path from server-based, departmental backup to fully automated, policy-driven company-wide storage management.

FEATURES:

- An intuitive user interface based on the Microsoft Management Console (MMC) enables the backup operator to learn functions quickly and manage by exception.
- Policy-based management offers a scalable approach to efficiently manage hundreds of network resources and thousands of jobs.
- Backup server pooling permits load balancing across Backup Exec servers and delivers higher levels of fault tolerance.
- Microsoft SQL Server 7.0 integration provides NSE with a robust database platform which stores all job, device, media and configuration information in an easily accessible format, resulting in superior performance, data integrity and reliability.



£71.29
ONLINE
49-98-63

- Creation of a completely centralised LAN-free backup solution for Windows NT/2000 servers connected to a Storage Area Network (SAN) can now be accomplished by combining Backup Exec NSE with Backup Exec Shared Storage Option.
- Integration with VERITAS Global Data Manager™ offers a single point of administration for monitoring multiple Backup Exec NSE or VERITAS NetBackup™ Master servers throughput the enterprise.

CHECK MEDIA BEFORE YOU BUY

www.action.com/veritas

DESCRIPTION	FORMAT	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Backup Exec NSE 8.0 Starter Kit	WIN NT	49-28-18	1838.00	♦	♦	1847.00
Backup Exec NSE 8.0 Access Licence 3 pack	WIN NT	49-37-19	552.95	♦	563.95	559.95
Backup Exec NSE 8.0 Remote Management Console	WIN NT	49-98-63	71.29	73.49	73.29	72.99
Backup Exec 7.3 Small Business Server	WIN NT	49-37-07	293.95	♦	298.95	297.95

OTHER ITEMS

FOR VERITAS LICENSING SEE PAGE 801
FOR SOFTWARE INDEX SEE PAGES 810–814

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

STORAGE, NETWORK & SYSTEMS MANAGEMENT

VERITAS

FOR DETAILS ON VERITAS LICENSING SEE PAGE 801



For more information visit VERITAS at www.action.com/veritas

VERITAS provide a comprehensive solution to managing and protecting data systems and the Network.
TeleBackup for Workgroups 2.5 automates client data protection by providing a simple, cost-effective and transparent method for protecting desktop data. Users benefit from automatic, regular data back-up and self-initiated application, data and registry restores.
Backup Exec Desktop Edition offers reliable, automated Windows 95/98/NT Workstation 4.0 data protection. Launch compatible backups or data restores with the 'One-Button' feature. Disaster Recovery restores your system without first reloading the OS or backup software.
Backup Exec Storage Migrator significantly reduces storage costs while keeping data available to users. Managing the capacity of data on the network, inactive files are moved to secondary media such as optical disk or tape, freeing up space while still allowing access to the files.
Desktop Management Suite (DMS) centralises the management and control of distributed network desktops by automating inventory, software distribution, application metering, change tracking, OS distribution, machine staging, remote control and network backup tasks.
WinINSTALL automates software distribution, creating distribution packages for migrations, corporate standard applications, updates or patches just once to make quick work of deploying software to desktops across your enterprise.
WinLAND™ is a complete workstation and server inventory solution featuring automated inventory to identify hardware and software at each workstation. The WinLAND software database identifies and tracks over 14,000 applications and their respective vendors.

www.action.com/veritas

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
TeleBackup for Workgroups 2.5 50 Client Server	WIN NT	49-55-71	1384.48	◗	◗	1399.00
TeleBackup for Workgroups 2.5 Additional 50 Client	WIN NT	49-76-87	1384.48	◗	◗	1399.00
Backup Exec for Desktop 4.2	WIN 95/98	49-18-83	37.99	39.95	39.55	38.99
Backup Exec Storage Migrator 2.5 – 50GB Base Pack	WIN NT	43-93-41	1964.20	◗	◗	1999.00
Backup Exec Storage Migrator 2.5 – Additional 50GB	WIN NT	43-93-58	868.88	◗	899.95	890.95
Backup Exec Intelligent Disaster Recovery	WIN NT	49-22-97	179.91	◗	184.95	183.10
WinINSTALL 6.5× 50 extra licenses	WIN 95/NT	49-91-75	550.27	◗	569.95	564.25
WinINSTALL 6.5× 100 extra licenses	WIN 95/NT	49-51-99	907.50	◗	939.95	930.55
WinINSTALL 6.5× 250 extra licenses	WIN 95/NT	49-40-13	2216.37	◗	◗	2249.95
Desktop Management Suite 3.5 **(50 user)**	NT/NETWARE	49-60-68	1150.72	◗	◗	1179.95
Desktop Management Suite 3.5 **(100 user)** extra licences	WIN NT/ NETWARE	49-78-53	2777.86	◗	◗	2819.95
Desktop Management Suite 3.5 **(250 user)** extra licences	WIN NT/ NETWARE	49-93-14	3979.98	◗	◗	3999.95
WinLAND 4.5 50 extra licenses	WIN 95	49-86-98	550.27	◗	569.95	564.25
WinLAND 4.5 100 user extra licenses	WIN 95	49-86-64	835.08	◗	864.95	856.30

OTHER ITEMS

FOR VERITAS SOFTWARE SEE PAGES 927, 928
FOR VERTIAS LICENSING SEE PAGE 801
FOR SOFTWARE INDEX SEE PAGES 810–814

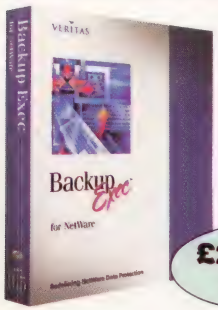
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

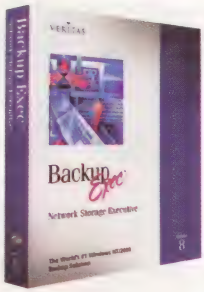
Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS 95, WINDOWS NT, NETWARE

STORAGE MANAGEMENT UPGRADES

VERITAS





£231.66
ONLINE
49-23-50

FOR DETAILS ON VERITAS LICENSING SEE PAGE 801

Networking pre-sales team
0800 732 832

FROM	TO	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DESKTOP BACKUP EXEC PRODUCTS UPGRADES (WINDOWS 95 & NT PLATFORM)						
Previous VERITAS/Arcada/ Competitive NT Workstation	VERITAS Backup Exec v2.0 for Win NT4 Workstation Edition (**1 user**)	45-09-66	41.05	42.95	42.52	42.10
SERVER BACKUP EXEC PRODUCTS UPGRADES (NETWARE PLATFORM)						
VERITAS Backup Exec for NetWare Server Edition	VERITAS Backup Exec v8.5 for NetWare Multi-Server Edition (**unlimited users**)	49-23-50	231.66	◗	239.95	237.55
VERITAS Backup Exec for NetWare Single or Multi-Server (Enterprise)	VERITAS Backup Exec v8.5 for NetWare Single Server (**25 users**)	49-71-21	154.43	◗	159.95	158.35
SERVER BACKUP EXEC PRODUCTS UPGRADES (WINDOWS NT PLATFORM)						
VERITAS Backup Exec for NT/2000 8.0 Single or Multi-Server (Enterprise)	VERITAS Backup Exec 8.0 for NT 2000 Multi-Server Edition (**unlimited users**)	49-64-82	145.87	◗	149.75	148.45
VERITAS Backup Exec for NT/2000 Single Server Version	VERITAS Backup Exec 8.0 for NT 2000 Single Server Edition (**unlimited users**)	49-76-88	218.82	◗	224.95	222.70
Competitive Enterprise Products	VERITAS Backup Exec 8.0 for NT/2000 Multi-Server Edition (**unlimited users**)	49-78-13	218.82	◗	224.95	222.70
Competitive Single Server Products	VERITAS Backup Exec 8.0 for NT/2000 Single Server Edition (**unlimited users**)	49-15-32	291.78	◗	299.95	296.95
Backup Exec SBS Edition	VERITAS Backup Exec 8.0 for NT/2000 Single Server Edition (**unlimited users**)	49-62-66	195.70	◗	198.95	197.76
SERVER BACKUP EXEC PRODUCTS UPGRADES – SBS (WINDOWS NT PLATFORM)						
Competitive Product	VERITAS SBS 8.0 Single Server (**50 users**)	49-49-83	224.91	◗	232.95	230.62

FOR VERITAS LICENSING SEE PAGE 801

OTHER ITEMS

FOR MORE VERITAS PRODUCTS SEE PAGE 927
FOR VERITAS LICENSING SEE PAGE 801
FOR SOFTWARE INDEX SEE PAGES 810–814

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS NT

NETWORK SECURITY SOFTWARE

Check Point Software Technologies Ltd is a leading provider of policy-based enterprise security and traffic management solutions for Windows NT. Through it's patented Stateful Inspection technology, the company is uniquely positioned to deliver Secure Enterprise Connectivity solutions that protect information assets and enhance the performance of enterprise networks. Led by it's flagship product, **Check Point FireWall-1 4.1,** the company offers a fully integrated security suite which features include:

FEATURES:

- **Multiple authentication** schemes, including SecurID and RADIUS, are supported via internal or external authentication servers.
- **Content security** protects users against macro viruses, malicious JAVA and ActiveX applets, undersirable URLs and more.
- **Server load balancing** automatically allocates connection requests, improving response time.
- **Encryption** provides the ability to build secure VPNs. Support for emerging standards (manual IPSec, SKIP, etc) ensures multi-vendor interoperability.
- Policy-based management provides **enterprise-wide security** with central management and control.
- **Web Access Control** – FireWall-1 embedded on edge devices economically distributes the security policy to the network perimeter.



Publisher's quoted system requirements:

Platforms: HP-PA 9000/700 and 800. IBM RS-6000 and PowerPC Intel x86 or Pentium, Sun SPARC-based systems.
Operating systems: HP-UX 10.10 and 10.20, IBM AIX 4.2.1 and 4.3, Solaris 2.5 and 2.6, Windows NT 4.0.
Internetworking Devices: 3Com/U.S. robotics EdgeServer; Bay Networks Routers (ARN, ASN, BN/BLN), Nokia IP400 and IP440, TimeStep PermitGate, Xylan OmniSwitch and PizzaSwitch (IP FireWall).
Windows system: Windows NT, Windows 95, X11R5.
Disk space: 30MB
Memory: 64MB
Network interface: All standard network interfaces for UNIX platforms 3Com or Intel network interface card recommended for NT platforms.
Media: CD-ROM.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
FireWall-1 Internet Gateway V4.1 **25 user**	WIN 95/NT	49-23-86	2260.75	➧	➧	2295.00	NEW
FireWall-1 Internet Gateway V4.1 **50 user**	WIN 95/NT	49-50-44	3559.14	➧	➧	3595.00	NEW
FireWall-1 Internet Gateway V4.1 **100 user**	WIN 95/NT	49-13-42	5595.00	➧	➧	5595.00	NEW
FireWall-1 Internet Gateway V4.1 **250 user**	WIN 95/NT	49-09-16	7250.00	➧	➧	7250.00	NEW
Firewall-1 Internet Gateway V4.1 **Unlimited User**	WIN 95/NT	49-39-59	13195.00	➧	➧	13195.00	NEW

OTHER ITEMS

FOR SOFTWARE INDEX SEE PAGES 810–814

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW item on this page

TRAINING GUIDES – DESKTOP TRAINING

Microsoft



Microsoft Press publishes a complete range of products on Microsoft® software and technology. Whether you need step-by-step instruction, in-depth programming information, high-level technical references, or training for Microsoft Certification, they have a product tailored to your needs.

If you can't find the title you are looking for over pages 930–934, contact our Pre-Sales team on 08701 664444 or mail prehelp@action.com and ask us to source it for you.

- **At a Glance:** Easy visual solutions to everyday questions.
- **Step-by-Step:** Self-paced tutorials for individual study.
- **Running:** A comprehensive in-depth alternative to standard documentation.
- **Help Desk:** Official Microsoft product support information.

CHECK MEDIA BEFORE YOU BUY

	DESCRIPTION	MEDIA	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	Microsoft Office 2000 Professional At a Glance	Book	49-22-73	13.10	14.89	14.75	14.29
NEW	Microsoft Office 2000 Help Desk	Book & CD	90-53-07	22.23	24.95	24.20	23.48
NEW	Mastering Microsoft Office 2000 Development	Book & CD	39-61-58	28.47	31.95	30.99	30.06
	Microsoft Office 2000 Resource Kit	Book & CD	49-08-48	36.55	37.99	37.79	37.55
	Running Microsoft Access 2000	Book & CD	49-95-33	27.95	29.29	29.05	28.89
	Running Microsoft Office 2000 Premium	Book	49-49-59	30.99	32.79	32.45	32.10
NEW	Microsoft Office 2000 Technical Support Training	Book & CD	77-93-92	55.68	62.49	60.62	58.80
NEW	Microsoft Office 2000 Step by Step 8 in 1	Book & CD	22-53-03	25.79	28.95	28.08	27.24
NEW	Microsoft Office 2000 Step by Step Interactive	Book & CD	22-52-74	17.63	19.79	19.20	18.62
NEW	Microsoft Office 2000 Step by Step Learning Kit	Book & CD	12-11-84	18.08	20.29	19.68	19.09
NEW	Microsoft Office 2000 Expert Companion	Book & CD	53-01-23	30.55	31.99	31.79	31.55
NEW	Deploying Microsoft Office 2000 Notes from the Field	Book & CD	37-00-72	22.23	24.95	24.20	23.48
	Running Microsoft FrontPage 2000	Book & CD	38-29-88	28.45	29.29	29.15	29.03
	Running Microsoft Excel 2000	Book	49-54-42	20.10	21.73	21.59	21.29
NEW	Microsoft Excel 2000 Step by Step Learning Kit	Book & CD	53-78-60	18.26	20.49	19.88	19.28
NEW	Web Publishing Step by Step Learning Kit	Book & CD	64-78-82	18.26	20.49	19.88	19.28
NEW	Microsoft Word 2000 Step by Step Learning Kit	Book & CD	77-83-69	18.26	20.49	19.88	19.28

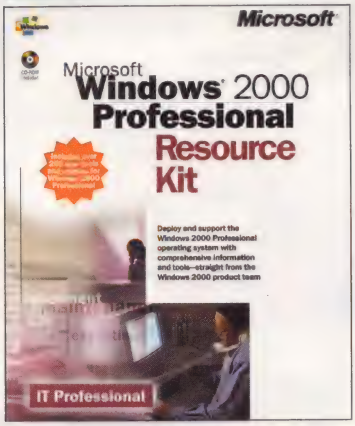
OTHER ITEMS

FOR MICROSOFT PROGRAMMING TOOLS SEE PAGES 830–833
FOR SOFTWARE INDEX SEE PAGES 810–814

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

TRAINING GUIDES – WINDOWS 2000

Microsoft





- **Resource Kit:** Deployment and maintenance expertise from the Microsoft product groups.
- **Techical Reference:** In-depth, detailed information into key new technologies or major product features.
- **Training Kit:** Hands-on, Self-paced training plus complete coverage of MCSE exams.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	MEDIA	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Windows 2000 Administrator's Pocket Consultant	Book	31-35-99	18.52	20.79	20.17	19.56	NEW
Windows 2000 Professional At a Glance	Book	37-04-39	12.13	12.69	12.56	12.44	
Windows 2000 Professional Resource Kit	Book & CD	53-78-12	41.39	42.95	42.79	42.49	
Windows 2000 Server Resource Kit	Book & CD	53-00-94	174.99	◗	179.95	178.95	
Running Microsoft Windows 2000 Professional	Book & CD	42-35-90	24.39	25.95	25.79	25.55	
Windows 2000 Professional Step by Step	Book & CD	40-87-38	16.72	17.49	17.32	17.14	
Windows 2000 Server Training Kit	Book & CD	38-30-27	34.39	35.95	35.79	35.49	
Windows 2000 Professional Training Kit	Book & CD	37-00-35	34.39	35.95	35.79	35.49	
Small Business Solutions for Windows 2000 Professional	Book	90-53-08	18.52	20.79	20.17	19.56	NEW
Windows 2000 Administrator's Companion	Book & CD	39-61-59	40.05	44.95	43.60	42.29	NEW
Active Directory Services for Windows 2000 Technical Reference	Book	77-93-94	28.95	32.49	31.52	30.57	NEW
Programming Server-Side Applications for Windows 2000	Book & CD	66-76-44	28.47	31.95	30.99	30.06	NEW

OTHER ITEMS

FOR MICROSOFT WINDOWS 2000 SEE PAGES 899–902

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW item on this page

TRAINING GUIDES – DEVELOPER

Microsoft





Training Kits: Real-world Developer training and MCSD exam preparation.

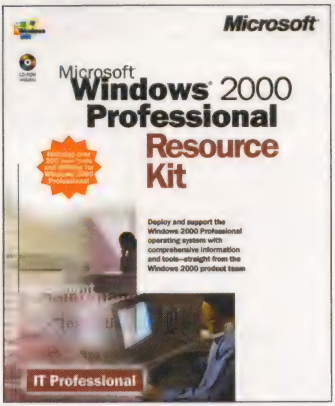
Deluxe Learning Editions: Comprehensive training packages that offer multiple ways to learn.

	DESCRIPTION	MEDIA	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	Microsoft Visual Basic 6.0 Desktop Applications Training Kit	Book & CD	37-00-57	40.08	44.99	43.64	42.33
NEW	Microsoft Visual Basic 6.0 Deluxe Learning Edition	Book & CD	22-53-02	79.25	88.95	86.28	83.69
	Microsoft Visual C++ 6.0 Deluxe Learning Edition	Book & CD	49-53-76	87.29	88.99	88.69	88.45
NEW	Microsoft Visual J++ 6.0 Deluxe Learning Edition	Book & CD	12-11-83	79.25	88.95	86.28	83.69
NEW	Mastering Microsoft Visual Basic 6.0 Development	Book & CD	37-00-71	28.47	31.95	30.99	30.06
NEW	Mastering Microsoft Visual Basic 6.0 Fundamentals	Book & CD	53-78-59	28.47	31.95	30.99	30.06
	Microsoft Visual Basic 6.0 Programmer's Guide	Book	49-76-62	24.59	25.79	25.59	25.27
	Microsoft Visual C++ Programmer's Guide	Book & CD	49-76-73	20.77	21.73	21.51	21.30
	Microsoft Visual FoxPro 6.0 Programmer's Guide	Book	49-78-04	17.07	17.86	17.68	17.50
	Microsoft Visual InterDev 6.0 Programmer's Guide	Book	49-17-40	20.48	22.99	22.30	21.63
	Microsoft Visual J++ 6.0 Programmer's Guide	Book	49-82-31	18.59	19.89	19.69	19.45
	Microsoft Visual Studio Core Reference Set	Book	43-84-90	108.34	◗	117.95	114.41
NEW	Distributed Applications with Microsoft Visual Basic 6.0 Training Kit	Book & CD	81-15-27	44.54	49.99	48.49	47.04
NEW	Distributed Applications with Microsoft Visual C++ 6.0 Training Kit	Book & CD	64-78-81	40.05	44.95	43.60	42.29
NEW	Microsoft Visual C++ 6.0 Desktop Applications Training Kit	Book & CD	77-83-68	40.05	44.95	43.60	42.29
	Microsoft Visual Basic Professional 6.0 Step by Step	Book & CD	29-52-00	32.99	32.99	32.99	32.99

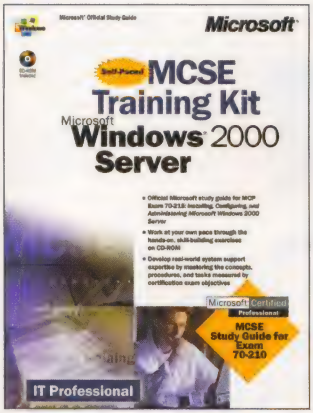
OTHER ITEMS
FOR MICROSOFT PROGRAMMING TOOLS SEE PAGES 830–833

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

TRAINING GUIDES – MCSE TRAINING & RESOURCE KITS Microsoft



■ **Resource Kit:** Deployment and maintenance expertise from the Microsoft product groups.



■ **Training Kit:** Hands-on, Self-paced training plus complete coverage of MCSE exams.

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	MEDIA	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Microsoft Windows 2000 Server Training Kit	Book & CD	38-30-27	34.39	35.95	35.79	35.49
Microsoft Windows 2000 Professional Training Kit	Book & CD	37-00-35	34.39	35.95	35.79	35.49
Microsoft Windows 2000 Active Directory Services Training Kit	Book	12-11-89	34.56	38.79	37.63	36.50
Upgrading to Microsoft Window 2000	Book & CD	37-00-78	33.81	37.95	36.81	35.71
Microsoft Office 2000 Technical Support Training	Book & CD	77-93-92	55.68	62.49	60.62	58.80
Microsoft SQL 7.0 Data Warehousing Training Kit	Book & CD	53-78-70	56.08	62.95	61.06	59.23
Microsoft SQL 7.0 Database Implementation Training Kit	Book & CD	64-78-86	56.08	62.95	61.06	59.23
Microsoft SQL 7.0 System Administration Training Kit	Book & CD	77-83-73	56.08	62.95	61.06	59.23
Microsoft Back Office Server 4.5 Resource Kit	Book & CD	52-99-39	156.10	◗	158.49	157.95
Microsoft Exchange Server 5.0 Resource Guide	Book & CD	31-36-02	28.77	32.29	31.32	30.38
Microsoft Office 2000 Resource Kit	Book & CD	49-08-48	36.55	37.99	37.79	37.55
Microsoft SQL Server 7.0 Resource Guide	Book & CD	37-00-01	34.29	38.49	37.95	37.49
Microsoft Windows 2000 Professional Resource Kit	Book & CD	53-78-12	41.39	42.95	42.79	42.49
Microsoft Windows 2000 Server Resource Kit	Book & CD	53-00-94	174.99	◗	179.95	178.95
Microsoft Windows NT Server 4.0 Resource Kit	Book & CD	37-49-56	77.51	81.09	80.95	80.79

OTHER ITEMS
FOR MICROSOFT LICENSING SEE PAGES 793–795

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW item on this page

PRODUCTS FOR: WINDOWS, WINDOWS 95, WINDOWS 98, WINDOWS NT

SUPPORT & PRODUCT SUBSCRIPTION

Microsoft



TechNet is the most extensive technical resource available for IT professionals seeking information about Microsoft products. Delivered to subscribers each month, TechNet provides critical information for deploying applications, minimising down-time and building technical expertise. Subscription to TechNet provides several CDs packed with the latest information from Microsoft, including Resource Kits, technical notes, knowledge base articles and the complete library of service packs, software updates and drivers. All of this information is presented with a powerful search engine that helps you find information you need quickly and accurately.

TechNet Plus CD One Year Subscription combines a regular TechNet CD subscription with Microsoft pre-release beta software, prior to wide public distribution on microsoft.com.

Deploy new technologies quickly and easily: Resource Kits, training materials, case studies and third-party product information help you implement Microsoft software more efficiently.

Keep up-to-date with the Latest Microsoft Technology: Reviewer's and evaluation guides, white papers and feature articles keep you informed about what Microsoft is doing and how the products work.

Minimise System Downtime and Increase Productivity: With the Microsoft Knowledge Base, the complete set of drivers and patches and service packs you'll spend less time tracking and resolving problems and more time building your business.

Updated KB articles, tech notes & White Papers: Each issue of TechNet contains an updated copy of Microsoft's Knowledge Base, complete with all of the answers to questions tech support engineers receive everyday. More than 4,000 articles are updated each month.

Microsoft Resource Kits: Contains in-depth technical information about implementing, deploying and supporting a product.

Updated Drivers & Patches CD: This is updated monthly and includes code samples; utilities and templates; patches and minor software updates; printer, video and keyboard drivers and the entire software library archive.

Updated Service Packs: Includes code samples; utilities and templates; patches and minor software updates; printer, video and keyboard drivers and the entire software library archive.

Training Materials: Helps you deploy and support Microsoft products in addition to educating end-users how to use those products.

Total Cost of Ownership (TCO) Information: An extensive collection of articles, case studies and presentations is dedicated to exploring the cost of IT ownership.

Please note that the betas shipped with TechNet Plus are intended for evaluation purposes only and do not include Microsoft technical support. Availability and timing of upcoming beta shipments is dependent upon Microsoft product release schedules.

Your first shipment will arrive with more than 28 CDs containing the entire collection of service packs, utilities drivers & patches and the software library archive in a portable CD binder. Thereafter, you will receive a minimum of three CD updates per month to keep you current.

Publisher's quoted system requirements:
386DX/33 or higher processor, Windows 3.1 or higher or Windows NT Workstation 3.51. 8MB RAM for Win 3.1 or later, 16MB RAM for Win NT Workstation 3.51. 3MB available hard disk space (10MB recommended), 2× or faster CD-ROM drive compatible with MPC Level 1 specifications, Mouse or equivalent pointing device. A printer is optional, but recommended.

CHECK MEDIA BEFORE YOU BUY

	DESCRIPTION	FORMAT	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	TechNet Plus Europe CD – **Single User**	WIN/95/98/2K/NT	22-53-08	282.05	♦	289.95	287.05
NEW	TechNet Plus Europe CD – **Multiple User**	WIN/95/98/2K/NT	12-11-86	515.52	♦	529.95	524.65
NEW	TechNet Europe – **Single Server**	WIN/95/98/2K/NT	37-00-74	408.51	♦	419.95	415.75
NEW	TechNet Europe CD – **Single**	WIN/95/98/2K/NT	53-78-63	170.19	♦	174.95	173.20

OTHER ITEMS
FOR MICROSOFT PRESS SEE PAGES 933, 934
FOR MICROSOFT LICENSING SEE PAGES 793–795

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

PC SOFTWARE INTRODUCTIONS

Microsoft



£149.76
ONLINE
75-64-83

Designed for everyday business use, **Microsoft MapPoint 2001** allows users to integrate maps into their Office documents, find and illustrate points on the map easily, and identify the trends of their business on the map quickly using their own data. Included is a complete set of geographical data with more than 242,000 miles of detailed street level maps for Great Britain.

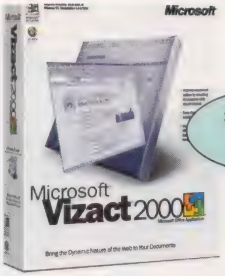
Publisher's quoted system requirements:
Windows 95, Windows 98 or Windows NT 4.0 or later with Service Pack 3. 24MB RAM. 120MB of available hard disk space. 2 CD-ROM drives. VGA, 256 colour or higher resolution monitor. Microsoft mouse or compatible pointing device.



£14.77
ONLINE
52-97-93

Microsoft TaxSaver 99 is designed to take the difficulty out of self-assessment. Once you are happy with your Tax Return, you can simply print, sign and send to the Inland Revenue. In addition TaxSaver 99 also gives you useful information about tax-related topics. It produces accurate results and is tested and approved by KPMG Consulting, one of the UK's leading tax advisers.

Publisher's quoted system requirements:
Windows 95, Windows 98 or Windows NT 4.0. Pentium 90 or higher processor. 32MB RAM. 25 to 120MB hard-disk space (120 required if Microsoft Internet Explorer 4.01 Service Pack 1A or later is not already installed). Double speed or faster CD-ROM drive. 14.4 or higher-baud modem required to use online features.



£97.89
ONLINE
22-51-96

Microsoft Vizact 2000 creates a new type of document: an Active Document. Active Documents use the dynamic nature of the Web to help people communicate in new, more effective ways. The ability to control when elements such as text, pictures, audio, and video appear or disappear, helps increase attention and retention of the user's message and ideas.

Publisher's quoted system requirements:
PC with a Pentium 75MHz or higher processor. Microsoft Windows® 95 or later operating system, or Microsoft Windows NT® Workstation operating system version 4.0 Service Pack 3 or later. **Note:** Vizact 2000 Preview is not supported on beta versions of Windows 2000 (unless you are running build 2060 or later). For Windows 95 or Windows 98: 16MB of RAM for the operating system, plus an additional 4MB of RAM for Windows NT Workstation: 32MB of RAM for the operating system, plus an additional 4MB of RAM for Vizact. 80-115MB of available hard-disk space (number indicates typical installation; your hard-disk usage will vary depending on configuration. CD-ROM drive. VGA or higher-resolution monitor; Super VGA recommended. Microsoft Mouse, Microsoft IntelliMouse®, or compatible pointing device.

Customers now only require 5 licenses to participate in Microsoft's new open 5.0 licensing programme call 08701 633 300 for more details.

www.action.com/microsoft

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
MapPoint 2001	WIN 95/98/NT	75-64-83	149.76	◗	153.95	152.41	NEW
TaxSaver 99 1.0	WIN 95/98/NT	52-97-93	14.77	15.95	15.79	15.65	
Vizact 2000	WIN 95/98/NT	22-51-96	97.89	99.95	99.79	99.39	

OTHER ITEMS

FOR MICROSOFT LICENSING SEE PAGES 793–795

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

NEW *item on this page*

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

ROUTE PLANNING AND



£40.61
ONLINE
49-32-24



£25.79
ONLINE
49-55-52

Softwair Travelmanager is a complete street-level road atlas and route planner for Great Britain. It's database holds the name of every street, in every city, town and village in Great Britain. You simply enter the street name or postcode of the building or home you are searching for and Travelmanager will plot it on cartographic-quality maps.

FEATURES:
- Completes even the most complex routing tasks in only a matter of seconds.
- Plans the efficient route on complex journeys requiring up to 14 different stopovers.
- Avoids including one-way streets in most instances.
- Uses Ordnance Survey's enhanced geocoding of Royal Mail's postcodes for improved accuracy.

Publisher's quoted system requirements:
486 or higher PC. Windows 95, Windows 98, Windows NT 4.0. CD-ROM drive.

AND Route 66 Europe calculates the shortest, quickest, cheapest and even the most environmentally friendly route by car or lorry between all cities in Europe. It contains 450,000 cities in Europe and includes junctions, sliproads onto and off major roads and roundabouts. It can even highlight your own address on the map, incorporate it in the route and set it up with an Internet link.

FEATURES:
- Calculate a route with several stopping-off points in the most efficient order, or in the specified order.
- Save or export your route to other programs.
- Speeds and costs can be set out in detail.
- Colours of the map can be set to your choice and the level of detail can be chosen regardless of scale.

Publisher's quoted system requirements:
486 processor or higher (Pentium recommended). Windows 95, 98 and Windows NT. Minimum 16MB RAM. 50MB free hard disk space. Monitor with 256 colours. CD-ROM drive.

CHECK MEDIA BEFORE YOU BUY

	DESCRIPTION	FORMAT	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	Softwair Travelmanager	WIN 95/98/NT	49-32-24	40.61	42.49	42.07	41.64
NEW	AND Route 66 Britain 2000	WIN 95/98/NT	49-55-87	25.79	28.95	28.08	27.24
	AND Route 66 Europe	WIN 95/98/NT	49-55-52	25.79	28.95	28.08	27.24

OTHER ITEMS
FOR SOFTWARE INDEX SEE PAGES 810–814

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS 2000, WINDOWS NT

ROUTE PLANNING

Microsoft

New from Microsoft®, **AutoRoute 2001** now includes Microsoft's leading street mapping and trip planning technology in one comprehensive product. Find and map street addresses or plan detailed cross-country driving trips for Great Britain and now Europe!

Find Address/Place: Easily pinpoint exact customer or business address on the map by simply entering an address or location.

Address to address routing: *(Available for Great Britain, Germany and France Only)* allows users to easily pinpoint addresses and places in Great Britain, France and Germany and get city-to-city maps and driving directions.

Includes European Street-level data! Now includes street level data for Great Britain, France, Belgium, Netherlands, Luxembourg, Germany, Switzerland, Austria and Italy.

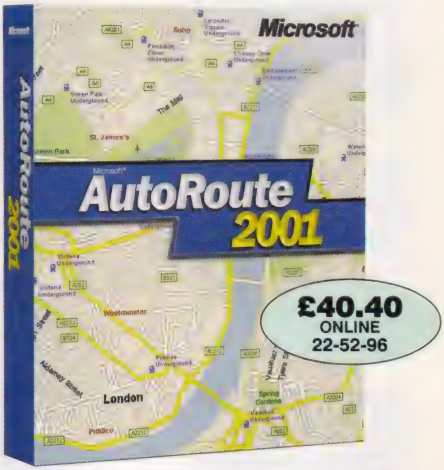
Snap-Routing lets you move a route to wherever you want it by simply dragging the highlighted route to the preferred location. Gives users unparalleled ease of use and flexibility in planning and changing routes, adding vias, stopovers or detours to routes.

Print your map in any of four styles – Turn-by-Turn, Strip Maps, Route Overview and Directions only. Now you can customise the way you want to see maps and directions to a format that best suits your needs. Microsoft® AutoRoute 2001 is designed to print clearly on Black and White printers and also offers an option to print a faxable map.

Faster searching. The Find panel helps you quickly locate an address, a place, a postcode, an OS grid reference, or latitude and longitude co-ordinates. The 'Find Nearby Places' search feature lets you find points of interest near a point on the map or a route segment.

Find specific map information using new radius and oval shapes. For example – restaurants within a 2km/mile distance from an address, or petrol stations within a 35km/mile radius of a location.

Personalise maps to suit your needs. Add callouts, shapes and more to explain complex routes or hard-to-find addresses, point out landmarks and add other details for friends, family or customers.



Includes 1229 Pubs from The Good Pub Guide, 2227 Hotels from the Royal Automobile Club (RAC) Guide, 721 Convention/Exhibition Centres, 1618 Golf Courses, 2077 Hospitals, 2101 Civic/Community Centres, 30,730 Hotels and Motels, 15,621 Attractions & Tourist info., 5446 Museums, 49,758 Restaurants...

Publisher's quoted system requirements: Multilmedia Pentium PC. Windows 95 or later, Windows NT Workstation 4.0 or later (does not run on earliar versions). 16MB RAM for Windows 95 (32MB recommended); 32MB for Windows NT Workstation. 145-200MB of available hard-disk space. Double-speed or faster CD-ROM drive. Super VGA, 256-colour monitor. Microsoft Mouse or compatible pointing device. To use Streets & Trips Internet links, you need: An Internet service provider and access to the Internet (online services may be subject to fees) 9600 or higher-baud modem.

www.action.com/microsoft

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
AutoRoute Euro 2001 (Europe & GB)	WIN 95/98/2000/NT	22-52-96	40.40	41.95	41.53	41.12	NEW
AutoRoute Express GB 2000	WIN 95/98/NT	49-28-14	39.96	41.49	41.08	40.66	
AutoRoute Express Europe 2000	WIN 95/98/NT	49-28-21	40.49	41.49	40.79	40.49	
AutoRoute Express GB & Europe 2000 bundle	WIN 95/98/NT	53-00-02	40.10	41.49	41.29	40.95	

OTHER ITEMS

FOR HOME, LEISURE AND REFERENCE SOFTWARE SEE PAGES 938, 939
FOR MICROSOFT LICENSING SEE PAGES 793–795

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

HOME, LEISURE & REFERENCE

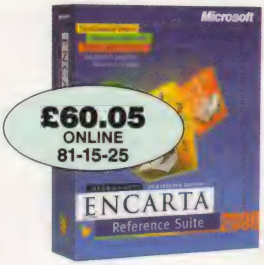
Microsoft



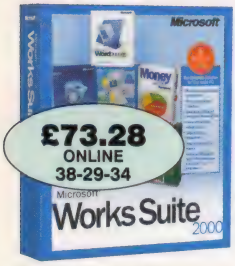
Money 2000 Business & Personal



Home Publishing 2000



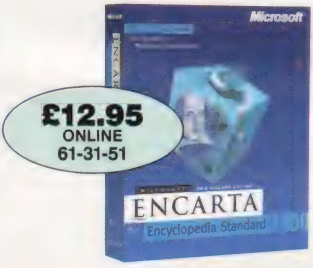
Encarta Ref Suite 2000



Work Suite 2000



Works 2000



Encarta Standard 2000

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Microsoft Money 2000	WIN 95/98/NT	12-10-31	17.60	18.95	18.79	18.60
Microsoft Business & Personal 2000	WIN 95/98/NT	38-29-35	42.10	42.95	42.82	42.75
Microsoft Encarta Deluxe 2000	WIN 95/98/NT	53-77-50	38.75	39.99	39.75	39.49
Microsoft Encarta Reference Suite 2000	WIN 95/98/NT	81-15-25	60.05	60.95	60.87	60.79
Microsoft Encarta Standard 2000	WIN 95/98/NT	61-31-51	12.95	13.95	13.79	13.60
Microsoft Encarta World Atlas 2000	WIN 95/98/NT	34-91-76	15.99	16.95	16.79	16.49
Microsoft Encarta World Dictionary 1.0	WIN 95/98/NT	77-83-09	16.75	17.95	17.79	17.49
Microsoft Works 2000	WIN 95/98/NT	12-10-30	35.69	37.95	37.69	37.35
Microsoft Works Suite 2000	WIN 95/98/NT	38-29-34	73.28	74.95	74.50	74.05
Microsoft Greetings 2000	WIN 95/98/NT	53-00-25	19.21	19.95	19.75	19.55
Microsoft Home Publishing 2000	WIN 95/98/NT	12-11-04	24.79	25.95	25.80	25.69
Microsoft Home Publisher Suite 2000	WIN 95/98/NT	38-29-92	43.29	44.95	44.50	44.06

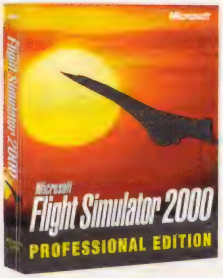
OTHER ITEMS

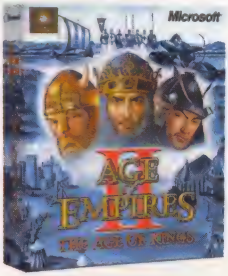
FOR CD-ROM DRIVES SEE PAGE 243, 244
FOR MOUSE MATS SEE PAGE 507

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

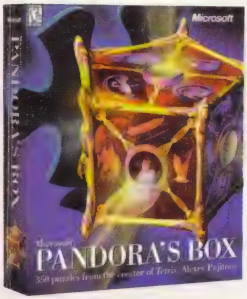
PRODUCTS FOR: WINDOWS, WINDOWS 95, WINDOWS 98, WINDOWS NT

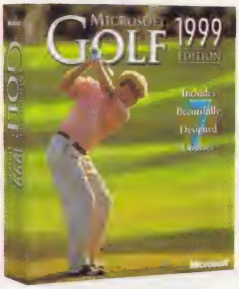
HOME, LEISURE & REFERENCE











We can also obtain a larger range of PC leisure titles
For more information contact Pre-Sales on
0870 166 4444

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
MS Age of Empiress	WIN 95/98/NT	37-21-61	11.54	12.95	12.56	12.18	✂
MS Age of Empires 1.0 Gold	WIN 95/98/NT	12-11-81	17.77	19.95	19.35	18.77	NEW
MS Age of Empires 2.0 The Age of Kings	WIN 95/98/NT	51-40-15	26.68	29.95	29.05	28.18	
MS Age of Empires: Rise of Rome	WIN 95/98/NT	46-87-69	11.54	12.95	12.56	12.18	✂
MS Allegiance 1.0	WIN 95/98	37-00-69	21.34	23.95	23.23	22.53	NEW
MS Baseball 2001	WIN 95/98	53-78-57	13.32	14.95	14.50	14.07	NEW
MS Basketball 2001	WIN 95/98	64-78-79	13.32	14.95	14.50	14.07	NEW
MS Close Combat Russia Front 3.0	WIN 95/98	77-83-67	11.54	12.95	12.56	12.18	NEW
MS Close Combat Trilogy	WIN 95/98	31-35-97	17.77	19.95	19.35	18.77	NEW
MS Combat Flight Simulator	WIN 95/98/NT	46-87-52	17.77	19.95	19.35	18.77	✂
MS Golf 99	WIN 95/98	49-38-20	11.54	12.95	12.56	12.18	✂
MS Links Courses 2000 10 course PK Vol. 1	WIN 95/98	57-39-40	13.32	14.95	14.50	14.07	NEW
MS Links LS 2000	WIN 95/98/NT	81-42-01	24.01	26.95	26.14	25.36	NEW
MS Motors Madness 2.0	WIN 95/98	94-74-04	24.90	27.95	27.11	26.30	NEW
MS Pandora's Box 1.0	WIN 95/98	58-04-40	11.54	12.95	12.56	12.18	✂
MS Soccer 2000	WIN 95/98	40-78-26	13.32	14.95	14.50	14.07	NEW

OTHER ITEMS
FOR CD-ROM DRIVES SEE PAGE 255
FOR SOFTWARE INDEX SEE PAGES 810–814

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

ACADEMIC ELIGIBILITY GUIDELINES

Academic products carried in the Action catalogue are supplied through our normal distribution channels. Customers will need to prove their status when ordering from Action and qualifying bodies are listed below.

Ministry of Education (encompassing Department for Education; Welsh Office, Scottish Office and Northern Ireland Office Education departments).

All Public and Private Schools and Colleges recognised by the Ministry of Education.

All Universities.

Government Training Colleges, for use in classroom training only. RAF, Army, Royal Navy Training Colleges.

Housing Associations, registered as charities.

All staff employed by these recognised establishments.

Students (over the age of 16) **or Teachers** currently practising at any qualifying education establishments, who must provide proof of status in the form of Student ID cards or Letters from the educational Institution respectively.

Public Research Establishments funded by the Ministry of Education (as outlined above).

Public Libraries, Museums, Training and Enterprise Councils or Business Links.

Hospital and Medical Training Schools (if registered to a University).

Government Education Authorities (i.e. Local Education Authorities).

Registered Charities (proof of reg. no. required) that are not affiliated to a profit-making Company in any way.

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

EDUCATIONAL SOFTWARE – LICENSING

EDUCATIONAL SAVINGS IN ACTION

Instead of buying your software in individual units (full packaged products), licensing, in its various forms, allows you to buy the rights to a licence to enable you to copy and distribute the software to the required number of users in your organisation. Licensing differs from supplier to supplier in terms and formats supplied and specific educational licences are available from most manufacturers.



Microsoft

Microsoft have designed licensing agreements that allow volume users to purchase their products at reduced cost. Academic licensing is even cheaper.

Save up to 80% on buying MS Office 97 Professional:

BOXED PRODUCT		SELECT ACADEMIC LICENCE/ USER
£419.00	SAVE 80%	£69.00



Lotus

Lotus Passport Advantage is a volume licensing programme for acquiring and upgrading Lotus software and services, offering substantial savings on software purchases.

Save up to 80% on buying Lotus 1-2-3 97:

BOXED PRODUCT		PASSPORT ADVANTAGE ACADEMIC LICENCE/USER
£227.00	SAVE 80%	£20.00



Corel

Corel's competitive licence pricing structure will revolutionise the way your organisation plans its software purchasing investments.

Save up to 70% on buying Corel Office Professional 8:

BOXED PRODUCT		CHOICE ACADEMIC LICENCE/USER
£179.00	SAVE 70%	£44.00

ACTION: No1 FOR LICENSING
CALL 08701 63 33 00 TO FIND OUT WHY

OTHER ITEMS

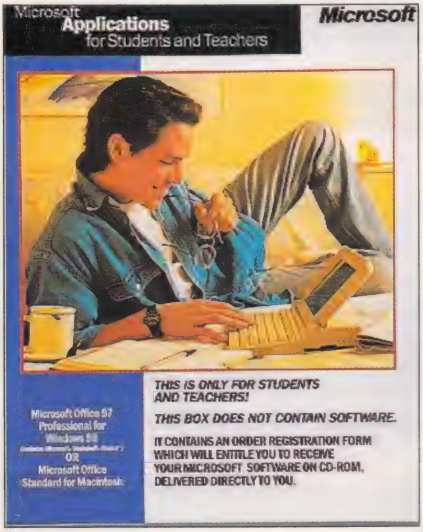
FOR MICROSOFT LICENSING SEE PAGES 793–795
FOR TECHNICAL SERVICES SEE PAGES 23–39

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

STUDENT LICENCE PACKS

Microsoft



Microsoft Student Licence Packs have been designed to offer students easy access to Microsoft software.
They enable low-cost purchases and legally entitle qualifying students to the latest Microsoft Technology, with the many extra benefits of being a registered Microsoft user.

Eligible students must be enrolled in any school, college or university, on a full-time or part-time basis, which is recognised by the UK Department for Education, or on a course that will lead to a publicly recognised Certification. The Student Licence Pack Offer has been extended to those students who are continuing education whilst employed (eg MBA), Teachers and those with children over 5 years old in full time education.

Manuals not included.

Microsoft Certified Solution Provider Partner

Your step-by-step purchasing guide:

1 Parent/teacher/student purchases Student Licence Retail Box ▶ **2** Parent/teacher/student sends signed and completed Order Registration Form to Microsoft ▶ **3** Microsoft validate Order Registration Form and grant Student Licence

4 Microsoft sends Student Licence Fulfilment Box and Licence, within 21 days

◀ **5** Microsoft will decline the Student Licence Application if the validation requirements are not wholly and correctly satisfied

◀ **6** If a rejection is received, the customer should then return the Retail Box to Action, with a valid receipt, for a full refund

CHECK MEDIA BEFORE YOU BUY

www.action.com/microsoft

DESCRIPTION	MEDIA INCLUDED	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Windows 98 Upgrade or Windows 2000 Student Pack	NO	22-52-29	35.58	36.95	36.79	36.29
Visual Tools Pro 6.0 Student Pack	NO	67-30-11	57.49	59.95	59.59	59.10
Desktop 2000 Premium Student Pack	NO	53-00-18	101.27	◗	102.95	102.33
Desktop 2000 Professional/Mac Student Pack	NO	12-10-99	84.19	84.95	84.74	84.53
Visual Studio Developer 6.0 Student Pack	NO	77-83-29	56.77	58.95	58.36	57.78

OTHER ITEMS

FOR MICROSOFT LICENSING SEE PAGES 793–795

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

EDUCATIONAL SOFTWARE

Microsoft



SEE PAGE FOR ACADEMIC ELIGIBILITY GUIDELINES

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
MS BackOffice SBS 4.5 **5 Client**	WIN 95/98/NT	22-52-33	495.10	◗	499.95	498.89	
MS BackOffice Server 4.5 **5 Client**	WIN 95/98/NT	12-11-40	794.59	◗	799.95	798.95	
MS Desktop 2000	WIN 95/98/NT	53-00-18	101.27	◗	102.95	102.33	✂
MS Desktop 2000 Pro	WIN 95/98/NT	12-10-99	84.19	84.95	84.74	84.53	✂
MS Developer Student Licence	WIN 95/98/NT	77-83-29	56.77	58.95	58.36	57.78	
MS Encarta Deluxe 2000	WIN 95/98/NT	38-30-28	30.95	31.95	31.89	31.75	
MS Encarta Reference Suite 2000	WIN 95/98/NT	37-00-36	40.10	41.95	41.53	41.12	
MS Encarta Reference Suite 2000 DVD	WIN 95/98/NT	53-78-13	40.10	41.95	41.53	41.12	
MS Encarta World Atlas 2000	WIN 95/98/NT	64-78-26	14.29	14.95	14.80	14.65	
MS Excel 2000	WIN 95/98/NT	52-53-55	62.08	64.95	64.30	63.66	
MS Exchange CAL 5.5	WIN 95/98/NT	77-83-47	41.05	42.95	42.52	42.10	
MS Exchange Server 5.5 **25 Client**	WIN 95/98/NT	31-35-76	694.89	◗	699.95	698.95	
MS FrontPage 2000	WIN 95/98/NT	77-93-61	36.27	37.95	37.57	37.19	
MS Internet Connector 2000 Unlimited MLP	WIN 95/98/NT	12-21-48	824.89	◗	829.95	828.95	
MS MSDN Library 6.0	WIN 95/98/NT	90-52-90	23.85	24.95	24.70	24.45	
MS MSDN Pro 6.0	WIN 95/98/NT	39-61-42	173.74	◗	179.95	178.79	
MS MSDN Universal	WIN 95/98/NT	86-87-19	474.69	◗	479.95	478.89	
MS Office 2000	WIN 95/98/NT	52-64-65	156.10	◗	169.95	164.85	
MS Office Developer 2000	WIN 95/98/NT	39-61-24	366.83	◗	379.95	378.95	
MS Office Pro 2000	WIN 95/98/NT	52-76-70	185.69	◗	189.95	188.29	
MS Office Pro 4.3	WIN 95/98/NT	66-76-31	181.46	◗	187.95	186.07	
MS Project 98	WIN 95/98/NT	57-39-29	120.89	◗	123.95	123.39	
MS Project 2000	WIN 95/98/NT	53-01-67	108.16	◗	109.95	109.29	NEW
MS Proxy Server 2.0	WIN 95/98/NT	35-20-41	305.10	◗	309.95	308.89	
MS Publisher 2000	WIN 95/98/NT	53-77-53	31.49	32.95	32.62	32.29	
MS SQL Server 7.0 **5 Client**	WIN 95/98/NT	53-00-89	324.89	◗	329.95	328.49	
MS SQL Server Enterprise **25 Client**	WIN 95/98/NT	22-52-34	1589.10	◗	◗	1599.95	
MS Visual Tools Pro Licence Pack	WIN 95/98/NT	67-30-11	57.49	59.95	59.59	59.10	

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRODUCTS FOR: WINDOWS 95, WINDOWS 98, WINDOWS NT

EDUCATIONAL SOFTWARE

Microsoft



£62.08 ONLINE 77-83-48

£224.39 ONLINE 12-11-41

£229.49 ONLINE 37-00-37

CHECK MEDIA BEFORE YOU BUY

DESCRIPTION	FORMAT	CAT NO CD-ROM	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
MS Visual Basic Enterprise 6.0	WIN 95/98/NT	12-11-41	224.39	◗	229.95	228.65
MS Visual Basic Pro 6.0	WIN 95/98/NT	38-30-29	62.08	64.95	64.49	63.95
MS Visual Basic Standard 6.0	WIN 95/98/NT	43-77-83	15.25	15.95	15.79	15.63
MS Visual C++ Enterprise 6.0	WIN 95/98/NT	37-00-37	229.49	◗	234.95	233.60
MS Visual C++ Pro 6.0	WIN 95/98/NT	53-78-14	62.08	64.95	64.30	63.66
MS Visual C++ Standard 6.0	WIN 95/98/NT	64-78-27	15.25	15.95	15.79	15.63
MS Visual Fox Pro 6.0	WIN 95/98/NT	77-83-48	62.08	64.95	64.30	63.66
MS Visual Inter Dev 6.0	WIN 95/98/NT	31-35-78	62.08	64.95	64.30	63.66
MS Visual J++ Pro 6.0	WIN 95/98/NT	39-61-43	26.72	27.95	27.67	27.39
MS Visual J++ Standard 6.0	WIN 95/98/NT	77-93-76	17.16	17.95	17.77	17.59
MS Visual Studio Enterprise 6.0	WIN 95/98/NT	86-87-20	325.56	◗	329.95	329.10
MS Visual Studio Pro 6.0	WIN 95/98/NT	66-76-33	125.46	◗	129.95	128.65
MS Windows 98 Second Edition	WIN 95/98/NT	57-39-30	47.74	49.95	49.45	48.96
MS Windows 2000 Advanced Server **25 Client**	WIN 95/98/NT	35-20-42	2387.29	◗	◗	2399.00
MS Windows **Client Access Licence**	WIN 95/98/NT	45-98-16	60.17	62.95	62.32	61.70
MS Windows **Client Access Licence 20 MLP**	WIN 95/98/NT	81-41-91	226.39	◗	229.95	229.59
MS Windows 2000 Professional	WIN 95/98/NT	94-73-96	97.39	99.95	99.79	99.29
MS Windows 2000 Server**5 Client**	WIN 95/98/NT	74-24-44	314.79	◗	319.95	318.75
MS Windows 2000 Server **10 Client**	WIN 95/98/NT	75-95-82	363.95	◗	369.95	368.25
MS Windows Terminal Services **Client Access Licence**	WIN 95/98/NT	94-32-03	11.42	11.95	11.83	11.71
MS Windows Terminal Services **20 MLP**	WIN 95/98/NT	58-04-43	40.10	41.95	41.53	41.12
MS Word 2000	WIN 95/98/NT	52-76-57	49.65	51.95	51.43	50.92

OTHER ITEMS

FOR TECHNICAL SERVICES SEE PAGES 23–39

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRINTER CONSUMABLES & STATIONERY

INDEX BY PRODUCT TYPE

Business Cards 1028
CD Labelling 1031
Colour Laser 1027
Continuous Listing Paper 1018-1021
Copier Labels 1030
Copier Paper 1023
Copier Supplies 1014-1016
DVD Media Range 1022
Fax Paper 1023
Fax Supplies 958, 992, 996, 999, 1010-1013
Film 957, 969, 981, 983
Film – for Laser, Inkjet, Thermal, Transfer & Copier 1027
Flip Frames 1027
Full Face CD 1022
Inket Printer Supplies 982-983
Inkjet 1027
Inkjet Compatibility Chart – Canon 952
Inkjet Compatibility Chart – Epson 960
Inkjet Compatibility Chart – Hewlett-Packard 971
Inkjet Compatibility Chart – Kyocera 987
Inkjet Film 981
Inkjet Labels 1029-1030
Inkjet Paper 981, 1023
Inkjet Printer Supplies 948, 950, 953-956, 961-964, 972-975, 991, 1002-1003, 1008-1009
Label Printing Software 1029
Labels – four across the web 1033
Labels – one across the web 1034
Labels – three across the web 1034
Labels – two across the web 1034
Laser 1027
Laser Compatibility Chart – Hewlett-Packard 976
Laser Compatibility Chart – OKI 989
Laser Compatibility Chart – Panasonic 993
Laser Copier Labels 1033
Laser Labels 1028
Laser Labels – Software Compatible 1032
Laser Paper 1023
Laser Printer Supplies . 949-951, 956, 959, 965, 977-979, 984-985, 988, 990-991, 994-995, 997-1001, 1004, 1005, 1007-1009
Media Compatibility Chart – Epson 968
Media Compatibility Chart – Hewlett-Packard 980
Media Supplies 983
Mounting Frames 1027
Original Ribbons .. 951, 959, 966-967, 986, 995, 1001
Paper 957, 970, 981, 983
Photo Paper 969
Printer Starter Kits 1024-1026
Thermal Ribbons 1006
Transparency Film 1027
Transparency Protectors 1027

INDEX BY MANUFACTURER

3M
Film – for Laser, Inkjet, Thermal Transfer, Copier..... 1027
Flip Frames..... 1027
Mounting Frames..... 1027
Transparency Film – Inkjet, Laser, Colour Laser..... 1027
Transparency Protectors..... 1027

Action
Printer Starter Kits..... 1024

Apple
Inkjet Printer Supplies..... 948
Laser Printer Supplies..... 949

Avery
Business Cards..... 1028
Copier Labels..... 1030
DVD Media Range..... 1022
Full Face CD..... 1022
Inkjet Labels..... 1029–1030
Label Printing Software..... 1029
Laser Labels..... 1028

Brother
Fax Supplies..... 1010
Inkjet Printer Supplies..... 950
Laser Printer Supplies..... 950–951
Original Ribbons..... 951

BT
Fax Supplies..... 1010

BXR
Continuous Labels..... 1033
Labels – four across the web..... 1033
Labels – one across the web..... 1034
Labels – three across the web..... 1034
Labels – two across the web..... 1034
Laser Copier Labels..... 1033
Laser Labels..... 1032

Canon
Copier Supplies..... 1014
Fax Supplies..... 958, 1011
Film..... 957
Inkjet Compatibility Chart..... 952
Inkjet Printer Supplies..... 953–956
Laser Printer Supplies..... 956
Paper..... 957

Digital
Laser Printer Supplies..... 959
Original Ribbons..... 959

Epson
Film..... 969
Inkjet Compatibility Chart..... 960
Inkjet Printer Supplies..... 961–964
Laser Printer Supplies..... 965
Media Compatibility Chart..... 968
Original Ribbons..... 966–967
Paper..... 970
Photo Paper..... 969

Hewlett-Packard
CD Labelling..... 1031
Film..... 981
Inkjet Compatibility Chart..... 971
Inkjet Film..... 981
Inkjet Paper..... 981
Inkjet Printer Supplies..... 972–975
Laser Compatibility Chart..... 976
Laser Printer Supplies..... 977–979
Media Compatibility Chart..... 980
Paper..... 981

IBM/Lexmark
Film..... 983
Inkjet Printer Supplies..... 982–983
Laser Printer Supplies..... 984–985
Media Supplies..... 983
Original Ribbons..... 986
Paper..... 983

Kyocera
Inkjet Compatibility Chart..... 987
Laser Printer Supplies..... 988
Printer Starter Kits..... 1026

Minolta
Copier Supplies..... 1014–1015

NEC
Fax Supplies..... 1012

OKI
Fax Supplies..... 992, 1012
Inkjet Printer Supplies..... 991
Laser Compatibility Chart..... 989
Laser Printer Supplies..... 990–991, 998

Olivetti
Fax Supplies..... 1012

Panasonic
Fax Supplies..... 996, 1013
Laser Compatibility Chart..... 993
Laser Printer Supplies..... 994–995
Original Ribbons..... 995

Paper Run
Continuous Listing Paper..... 1021

Pelikan
Inkjet Printer Supplies..... 1009
Laser Printer Supplies..... 1009

QMS
Laser Printer Supplies..... 997, 999

Sharp
Copier Supplies..... 1015
Fax Supplies..... 999
Laser Printer Supplies..... 999

Tally
Laser Printer Supplies..... 1000–1001
Original Ribbons..... 1001

Tektronix
Inkjet Printer Supplies..... 1002–1003
Laser Printer Supplies..... 1004–1005
Thermal Ribbons..... 1006

TopList
Continuous Listing Paper..... 1018–1021

Toshiba
Copier Supplies..... 1016

Xerox
Copier Paper..... 1023
Fax Paper..... 1023
Inkjet Paper..... 1023
Inkjet Printer Supplies..... 1008
Laser Paper..... 1023
Laser Printer Supplies..... 1006

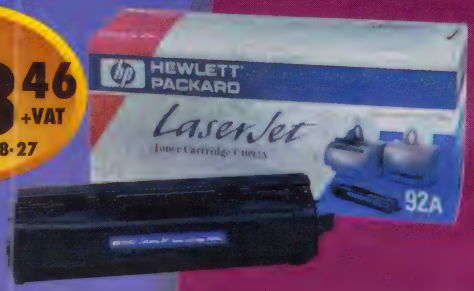
HP TRI-COLOUR CARTRIDGE FOR DESKJET 720/890C/1120C
(5 PACK) (C1823D)

Only £84.58 +VAT
ONLINE 04-18-12



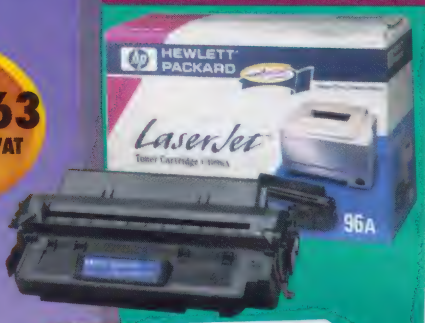
HP BLACK TONER CARTRIDGE FOR LASERJET 1100
(5 PACK) (C4092A)

Only £153.46 +VAT
ONLINE 04-18-27



HP BLACK TONER CARTRIDGE FOR LASERJET 2100
(5 PACK) (C4096A)

Only £260.63 +VAT
ONLINE 04-31-36



FREE HP DESKJET 610C WITH TONER CARTRIDGE FOR LASERJET 4000/4050
(5 PACK) (C4127X)

Only £367.55 +VAT
ONLINE 04-22-83

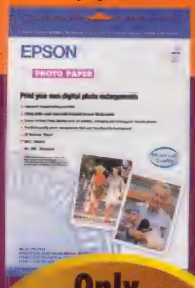


www.action.com
08701 66 00 22

PHONE NOW FOR YOUR COPY ON
08701 66 00 22

Action Office Products & Supplies Online

EPSON A4 PHOTO QUALITY PAPER (5 PACK) (100 SHEET) (SO41061)



Only £30.06 +VAT
ONLINE 04-18-19



Only £25.76 +VAT
ONLINE 04-31-32

EPSON A4 PHOTO PAPER (5 PACK) (SO41140)



Only £99.40 +VAT
ONLINE 04-94-98

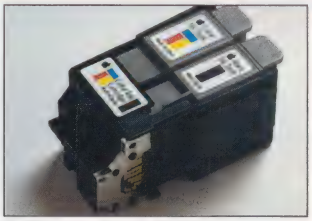
HP BLACK INK CARTRIDGE FOR DESKJET 2000C (5 PACK) (C4844A)

www.action.com
08701 66 00 22

Action
The No.1 Source for Computers & Supplies

Lower prices on-line at action.com

PRINTER SUPPLIES





PART NO.	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
M6901G/A	Colour Printer Black Ink Cartridge	21-51-25	14.91	15.25	15.16	15.07
M6902G/A	Colour Printer Yellow Ink Cartridge	21-51-32	19.69	20.45	20.25	20.04
M6903G/A	Colour Printer Magenta Ink Cartridge	21-51-49	20.00	20.45	20.33	20.21
M6904G/A	Colour Printer Cyan Ink Cartridge	21-51-56	20.00	20.45	20.33	20.21
M3822G/A	StyleWriter Pro Black Ink Cartridge	21-82-18	5.69	5.95	5.89	5.83
M1951G/A	StyleWriter Pro Yellow Ink Cartridge	21-82-25	5.06	5.25	5.20	5.15
M1950G/A	StyleWriter Pro Magenta Ink Cartridge	21-82-32	5.06	5.25	5.20	5.15
M1949G/A	StyleWriter Pro Cyan Ink Cartridge	21-82-49	5.06	5.25	5.20	5.15
M2951G/A	StyleWriter Pro A4 Coated Paper (**200 sheets**)	41-04-56	11.99	12.45	12.33	12.20
M1959G/A	StyleWriter Pro A4 Transparencies (**20 sheets**)	41-04-63	9.32	9.75	9.65	9.56
M3656G/A	StyleWriter Pro A4 Glossy Paper (**50 sheets**)	22-45-87	22.89	23.95	23.71	23.47
M8041G/A	StyleWriter I/II/Port./1200 Black Ink Cartridge	21-77-14	10.83	11.25	11.14	11.03
M8041G/A	StyleWriter I/II/Port./1200 Black Ink Cartridge (**5 pack**)	04-15-33	49.55	51.45	50.94	50.43
M4609G/A	StyleWriter 1500 Colour Ink Cartridge	84-71-08	14.40	14.95	14.80	14.65
T0547G/A	Colour Printer A3 Coated Paper (**200 sheets**)	40-71-53	32.21	33.45	33.12	32.78
M3909G/A	Colour StyleWriter 2200 Black Ink Cartridge	22-15-28	22.58	23.45	23.22	22.98
M3240G/A	Colour StyleWriter Pro 2400/2500 Black Ink Cartridge	22-14-63	14.88	15.45	15.30	15.14
M3328G/A	Colour StyleWriter Pro 2400/2500 Colour Ink Cartridge	22-14-70	20.66	21.45	21.24	21.02
M3330G/A	Colour StyleWriter Pro 2400/2500 Black Ink Tank	22-14-87	3.78	3.95	3.91	3.87
M3329G/A	Colour StyleWriter Pro 2400/2500 Colour Ink Tank	22-14-94	12.38	12.95	12.82	12.69
M3910G/A	Colour StyleWriter 2200 High Capacity Black Cartridge	22-15-35	11.03	11.45	11.34	11.22
M3911G/A	Colour StyleWriter 2200 Colour Ink Tank	22-15-42	12.47	12.95	12.82	12.69
M3912G/A	Colour StyleWriter 2200 Black Ink Tank	22-15-59	8.55	8.95	8.86	8.77
51629A	Colour StyleWriter 4500 Black Ink Cartridge (HP Original)	21-80-29	17.64	18.25	18.07	17.89
51649A	Colour StyleWriter 4500 Colour Ink Cartridge (HP Original)	21-80-36	17.99	19.75	19.55	19.36

APPLE PRINTER SUPPLIES CONTINUED ON 949

OTHER ITEMS

FOR INKJET PRINTERS SEE PAGES 374–399

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

APPLE PRINTER SUPPLIES CONTINUED FROM 948

PRINTER SUPPLIES

LASER





PART NO.	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
M0089LL/A	Personal LaserWriter NT/NTR/SC Toner Cartridge	21-50-77	40.40	41.95	41.53	41.12
M6002G/A	LaserWriter II Toner Cartridge (SX)	22-45-94	36.07	37.45	37.08	36.70
M2045G/A	LaserWriter 300/320 Toner Cartridge	21-79-58	33.66	34.95	34.60	34.25
M2473G/A	LaserWriter Pro 600/630/800 Toner Cartridge	21-50-84	44.73	46.45	45.99	45.53
M1960G/A	LaserWriter Select 300/310/360 Toner Cartridge	21-79-41	45.70	47.45	46.98	46.51
M0180G/A	LaserWriter/LaserWriter Plus Toner Cartridge	21-50-91	60.62	62.95	62.32	61.70
M3602G/A	LaserWriter Pro 810 Toner Cartridge	21-64-85	194.33	◗	197.55	196.36
M3756G/A	Colour LaserWriter 12/600PS Toner Cartridge	22-15-66	51.96	53.95	53.41	52.88
M3757G/A	Colour LaserWriter 12/600PS Cyan Toner Cartridge	22-15-73	60.62	62.95	62.32	61.70
M3758G/A	Colour LaserWriter 12/600PS Yellow Toner Cartridge	22-15-80	60.62	62.95	62.32	61.70
M3760G/A	Colour LaserWriter 12/600PS Magenta Toner Cartridge	22-15-97	60.62	62.95	62.32	61.70
M5893G/A	LaserWriter 8500 Toner Cartridge	23-00-38	137.17	◗	139.45	138.61
M5896G/A	LaserWriter 8500 Duplex Unit	23-00-45	210.07	◗	215.95	213.79

OTHER ITEMS

FOR LASER PRINTERS SEE PAGES 404–437

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRINTER SUPPLIES

brother

INKJET

PART NO.	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
9665	MC-3000/MFC-700 Black Ink Cartridge	23-17-73	11.42	11.95	11.83	11.71
9666	MC-3000/MFC-700 Yellow Ink Cartridge	23-30-96	5.02	5.25	5.20	5.15
9667	MC-3000/MFC-700 Cyan Ink Cartridge	23-53-52	5.02	5.25	5.20	5.15
9668	MC-3000/MFC-700 Magenta Ink Cartridge	23-94-79	5.02	5.25	5.20	5.15
LC02BK	MC-740 Black Ink Cartridge	52-95-90	11.90	12.45	12.33	12.20
LC02Y	MC-740 Yellow Ink Cartridge	38-28-18	4.77	4.99	4.94	4.89
LC02C	MC-740 Cyan Ink Cartridge	22-50-28	4.77	4.99	4.94	4.89
LC02M	MC-740 Magenta Ink Cartridge	12-09-00	4.77	4.99	4.94	4.89
5831	HJ-100/400 Black Ink Cartridge	22-87-27	17.92	18.75	18.56	18.38
5837	HJ-770 Black Ink Cartridge	22-87-34	15.05	15.75	15.59	15.44
7918	LW-600i WP Black Ink Cartridge	22-87-41	20.98	21.95	21.73	21.51
8043	LW-600i WP Black Refill Cartridge (+**3 Refills**)	22-87-58	28.44	29.75	29.45	29.16
8044	LW-600i WP Refills (**6 pack**)	22-87-65	10.47	10.95	10.84	10.73
8552	LW-700i/730i/750ic/800ic/810ic WP Black Ink Cartridge	22-87-72	22.89	23.95	23.71	23.47
8553	LW-750ic/800ic/810ic WP Colour Ink Cartridge	22-87-89	33.66	34.95	34.60	34.25

LASER

PART NO.	DESCRIPTION	PAGE YIELD	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
92275A	HL4, HL4V, HL4PS, HL6, HL6V EPS Cartridge (HP original)	4,000	20-99-04	47.18	47.60	47.55	47.35
92295A	HL8E, HL8V, HL8D, HL8PS, HL8QS, HL10V, HL10DV, HL10H EPS Cartridge (HP original)	5,000	20-55-82	41.05	42.95	42.52	42.10
TN100	HL630/630i/660 Toner Cartridge	3,000	21-70-51	16.68	17.45	17.28	17.10
TN100	HL630/630i/660 Toner Cartridge (**5 pack**)	15,000	04-15-40	77.20	78.95	78.48	78.01
DR100	HL630/630i/660 Drum Unit	18,000	21-70-68	84.02	84.95	84.85	84.76
TN200	HL730+/760 Toner Cartridge	2,200	22-67-74	12.09	12.65	12.52	12.40
TN200	HL730+/760 Toner Cartridge (**5 pack**)	11,000	04-15-57	57.30	59.95	59.35	58.76
DR200	HL730+/760 Drum Unit	8,000	22-67-81	72.36	72.95	72.85	72.75
TN300	HL820/1040/1050/1060/1070 Toner Cartridge	2,200	22-86-93	12.19	12.75	12.62	12.50
DR300	HL820/1040/1050/1060/1070 Drum Unit	10,000	22-87-03	72.89	73.95	73.76	73.69
92298A	HL1260/1660 Toner Cartridge (HP original)	6,000	21-47-17	47.95	53.95	52.33	50.76
8170	HL1260/1660 Black Toner Cartridge	6,000	23-17-99	44.88	46.95	46.48	46.02
9832	HL2400C Black Toner Cartridge	10,000	11-41-30	76.42	79.95	79.15	78.36
9833	HL2400C Cyan Toner Cartridge	6,000	11-41-47	64.48	66.95	66.28	65.62
9834	HL2400C Magenta Toner Cartridge	6,000	11-41-54	63.99	66.95	66.28	65.62
9835	HL2400C Yellow Toner Cartridge	6,000	11-41-61	63.99	66.95	66.28	65.62
9837	HL2400C Fuser Cleaner Aid	12,000	11-41-78	50.61	52.95	52.42	51.90

BROTHER PRINTER SUPPLIES CONTINUED ON PAGE 951

*With Action Multipacks

OTHER ITEMS

FOR DOT MATRIX PRINTERS SEE PAGES 441–451
FOR CLEANING PRODUCTS SEE PAGES 534–540

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

BROTHER PRINTER SUPPLIES CONTINUED FROM 950

PRINTER SUPPLIES

brother

LASER

PART NO.	DESCRIPTION	PAGE YIELD	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
HL-1240/1250/1270/2400C							
9836	HL2400C OPC Belt	50,000	11-41-85	168.91	▶	174.95	173.20
TN6300	Toner Cartridge	3000	23-30-97	29.58	30.95	30.64	30.33
TN6600	Toner Cartridge	6000	23-53-57	42.01	43.95	43.51	43.08
DR6000	Drum Unit	20000	23-94-82	78.33	81.95	81.13	80.32

RIBBONS

PART NO.	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
BR1030	AX/LW/WP5/WP8/GX15/GX35 Black Ribbon	22-46-04	1.66	1.85	1.79	1.74
BR1030	AX/LW/WP5/WP8/GX15/GX35 Black Ribbon (**5 pack**)	04-88-66	6.17	6.45	6.39	6.32
1250	M1009/1109/1209/1224 Black Ribbon (Centronics Orig.)	20-47-89	3.33	3.75	3.64	3.53
1250	M1009 Black Ribbon (**5 pack**)	04-40-42	12.96	13.95	13.75	13.50
BR7020	H15/20/25/35/40/CE/CM100/200 Black Corr. Ribbon	20-21-83	1.74	1.95	1.89	1.83
BR7020	H15/CM100/200 Black Ribbon (**5 pack**)	04-40-59	6.19	6.95	6.74	6.54
BR9010	HR15/20/25/35/40/CE/CM100/200 LOT (**12 pack**)	21-09-86	1.29	1.50	1.44	1.38
BR9020	M2024L/DM40 Black Ribbon (Centronics Original)	20-48-13	3.34	3.75	3.65	3.60
BR9020	M2024L Black Ribbon (**5 pack**)	04-40-73	16.20	16.95	16.78	16.61
BR9030	M1509/1709 Black Ribbon (Centronics Original)	20-62-68	5.30	5.95	5.77	5.60
BR9030	M1509/1709 Black Ribbon (**10 pack**)	04-40-80	38.18	39.95	39.55	39.15
BR9050	M1724L Black Ribbon	20-70-16	7.60	7.95	7.87	7.79
BR9050	M1724L Black Ribbon (**5 pack**)	04-41-07	35.32	36.95	36.58	36.21
BR9060	M3524/4018 Black Ribbon	20-62-37	10.65	11.95	11.59	11.24
BR9060	M3524/4018 Black Ribbon (**5 pack**)	04-41-14	54.00	56.50	55.94	55.38
BR9080	2518/2525 Black Ribbon	20-70-23	17.16	17.95	17.77	17.59
BR9090	1309/1324/1818/1824/1918/1924 Black Ribbon	20-92-72	3.07	3.45	3.35	3.25
BR9090	1309 Black Ribbon (**5 pack**)	04-41-21	12.43	13.95	13.53	13.13
BR9380	M4318 Black Master Ribbon	21-34-64	22.89	23.95	23.71	23.47
BR9380	M4318 Black Ribbon (**5 pack**)	04-41-38	111.95	▶	115.95	114.79
BR17020	EM501/601/750/850/1000/HR25XL Black Corr. Ribbon	20-47-41	2.71	3.25	3.05	2.95
FAX						
BR7255	1000P PC-95 Ribbon (**5 pack**)	78-63-31	61.43	68.95	66.88	64.88
BR8656	1200P/1700P PC-102 Ribbon Refill (**2 pack**)	79-68-40	33.41	34.95	34.60	34.25

OTHER ITEMS

FOR DOT MATRIX PRINTERS SEE PAGES 441–451

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▶▶ Save £££'s!
▶▶ Check live stock
▶▶ Track order status

Lower prices on-line at action.com

PRINTER SUPPLIES

Canon

Canon. Ref.	Description	Cat. No.
BC-01	Black Ink Cartridge	21-11-05
BC-02	Black Ink Cartridge	21-48-65
BC-05	Colour Ink Cartridge	22-27-92
BC-06	Photo Ink Cartridge	22-64-13
BC-09F	Fluorescent Ink Cartridge	22-64-20
BC-10	Black Ink Cartridge & Printhead	21-83-42
BCI-10BK	Black Ink Tank	21-83-66
BC-11e	Colour Ink Cartridge & Printhead	21-83-59
BCI-11BK	Black Ink Tank	21-83-73
BCI-11C	Colour Ink Tank	21-83-80
BC-20	Black Ink Cartridge	21-71-16
BC-21e	Colour Ink Cartridge	21-71-23
BCI-21BK	Black Ink Cartridge	21-71-30
BCI-21C	Colour Ink Tank	21-71-47
BC-22e	Photo Ink Cartridge	22-64-37
BC-29F	Fluorescent Ink Cartridge	22-64-44
BJI-201BK	Black Ink Cartridge	21-77-07
BJI-201C	Cyan Ink Cartridge	21-58-88
BJI-201M	Magenta Ink Cartridge	21-58-95
BJI-201Y	Yellow Ink Cartridge	21-59-05
BJI-642	Black Ink Cartridge	21-19-61
BJI-643BK	Black Ink Cartridge	21-40-47
BJI-643C	Cyan Ink Cartridge	21-40-54
BJI-643M	Magenta Ink Cartridge	21-40-61
BJI-643Y	Yellow Ink Cartridge	21-40-78
BC-60	Black Ink Cartridge & Printhead	22-95-37
BC-61	Colour Ink Cartridge & Printhead	22-95-44
BCI-61	Colour Ink Tank	22-95-51
BCI-62	Photo Ink Tank	22-95-75
BC-62T	Photo Ink Cartridge & Printhead	23-17-74

BJ-10
BJ-20
BJ-30
BJC-50
BJC-70
BJC-80
BJC-150
BJ-200/EX
BJC-210
BJC-230
BJC-240
BJC-250
BJ-300 Series
BJC-600/e
BJC-610/620
BJC-800 Series
BJC-4000/4100
BJC-4200
BJC-4300
BJC-4550
BJC-4650
BJC-5100
BJC-5500
BJC-7000

OTHER ITEMS

FOR CANON INKJET PRINTERS SEE PAGES 377–381

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRINTER SUPPLIES

Canon

As pioneers of document reproduction and print technologies, **Canon** are able to combine development expertise with a thorough knowledge of what customers really want.
From black and white to high resolution colour printing Canon have the quality products to make sure you get top quality results every time you use your printer.



BCI-11BK Black Ink Tank only £5.57 online 21-83-73

BCI-11C Colour Ink Tank only £10.47 online 21-83-80

INKJET

PART NO.	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
CANON BJ-10/30/50/70/80						
BC-10	BJ-30 Black Ink Cartridge and Printhead	21-83-42	18.11	18.95	18.76	18.57
BC-10	BJ-30 Black Ink MultiPack (**5 pack**)	04-29-03	88.37	92.45	91.53	90.61
BCI-10BK	BJ-30 Black Ink Tank (for BC-10)	21-83-66	7.60	7.95	7.87	7.79
BC-10BK	BJC-50/70/80 Black Ink Tank for BC-10 (**5 pack**)	04-29-41	38.18	39.95	39.55	39.15
BC-10	BJC-50/70/80 Black Ink Cartridge and Printhead	21-83-42	18.11	18.95	18.76	18.57
BC-10	BJC-50/70/80 Black Ink Cartridge+Printhead (**5 pack**)	04-29-03	88.37	92.45	91.53	90.61
BC-11	BJC-50/70/80 Colour Ink Cartridge and Printhead	21-83-59	20.98	21.95	21.73	21.51
BC-11	BJC-50/70/80 Colour Ink Cartridge+Printhead (**5 pack**)	04-29-27	101.62	◗	109.95	108.95
BCI-10BK	BJC-50/70/80 Black Ink Tank (for BC-10)	21-83-66	7.60	7.95	7.87	7.79
BCI-10BK	BJC-50/70/80 Black Ink Tang for BC-10 (**5 pack**)	04-29-41	38.18	39.95	39.55	39.15
BCI-11BK	BJC-50/70/80 Black Ink Tank (for BC-11)	21-83-73	5.57	6.25	6.06	5.88
BC1-11BK	BJC-50/70/80 Black Ink Tank for BC-11 (**5 pack**)	04-29-65	27.67	28.95	28.66	28.37
BCI-11C	BJC-50/70/80 Colour Ink Tank (for BC-11)	21-83-80	10.47	10.95	10.84	10.73
BCI-11C	BJC-50/70/80 Colour Ink Tank for BC-11 (**5 pack**)	04-29-89	47.74	49.95	49.45	48.96
CANON BJ-130						
BJI-481	BJ-130 Black Ink Cartridge	22-91-11	9.51	9.95	9.85	9.75

*With Action Multipacks

CANON PRINTER SUPPLIES CONTINUED ON PAGE 954

OTHER ITEMS FOR CANON INKJET PRINTERS SEE PAGES 377–381

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

CANON PRINTER SUPPLIES CONTINUED FROM PAGE 953

PRINTER SUPPLIES

Canon



BCO2 Black Ink Cartridge only £59.49 online 05-51-96

PART NO.	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
BJC-800/820/880						
BJ1-643BK	Black Ink Cartridge	21-40-47	11.95	12.95	12.82	12.69
BJ1-643BK	Black Ink Cartridge (**5 pack**)	04-30-36	56.92	58.95	58.36	57.78
BJ1-643C	Cyan Ink Cartridge	21-40-54	14.29	14.95	14.80	14.65
BJ1-643C	Cyan Ink Cartridge (**5 pack**)	04-30-43	68.33	70.95	70.24	69.54
BJ1-643M	Magenta Ink Cartridge	21-40-61	14.29	14.95	14.80	14.65
BJ1-643M	Magenta Ink Cartridge (**5 pack**)	04-30-50	68.33	70.95	70.24	69.54
BJ1-643Y	Yellow Ink Cartridge	21-40-78	14.29	14.95	14.80	14.65
BJ1-643Y	Yellow Ink Cartridge (**5 pack**)	04-30-67	67.82	70.95	70.24	69.54
BJ-200/BJC-200 SERIES						
BC02	Black Ink Cartridge	21-48-65	11.95	13.25	13.12	12.99
BC02	Black Ink Cartridge (**5 pack**)	05-51-96	58.95	61.95	61.33	60.72
BC05	BJC-210 Colour Ink Cartridge	22-27-92	14.29	14.95	14.80	14.65
BC05	BJC-210 Colour Ink Cartridge (**5 pack**)	04-41-45	67.36	69.95	69.25	68.56
BC06PHOTO	BJC-240/250 Photo Ink Cartridge	22-64-13	12.38	12.95	12.82	12.69
BC06KIT	BJC-240/250 Photo Kit	22-64-51	16.20	16.95	16.78	16.61
BC09F	BJC-210/240/250 Fluorescent Ink Cartridge	22-64-20	13.32	14.95	14.50	14.07
BJ-300 SERIES						
BJI-642	Black Ink Cartridge	21-19-61	7.44	8.35	8.10	7.86
BJI-642	Black Ink Cartridge (**5 pack**)	04-29-96	37.23	38.95	38.56	38.17
BJ-600 SERIES						
BJI-201BK	Black Ink Cartridge	21-77-07	4.41	4.95	4.80	4.66
BJI-201BK	Black Ink Cartridge (**5 pack**)	05-52-06	20.45	22.95	22.26	21.59
BJ1-201C	Cyan Ink Cartridge	21-58-88	4.41	4.95	4.80	4.66
BJI-201C	Cyan Ink Cartridge (**5 pack**)	04-30-05	20.45	22.95	22.26	21.59
BJ1-201M	Magenta Ink Cartridge	21-58-95	4.41	4.95	4.80	4.66
BJI-201M	Magenta Ink Cartridge (**5 pack**)	04-30-12	20.45	22.95	22.26	21.59
BJI-201Y	Yellow Ink Cartridge	21-59-05	4.41	4.95	4.80	4.66
BJI-201Y	Yellow Ink Cartridge (**5 pack**)	04-30-29	20.45	22.95	22.26	21.59

CANON PRINTER SUPPLIES CONTINUED ON 955

*With Action Multipacks

OTHER ITEMS

FOR CANON INKJET PRINTERS SEE PAGES 377–381

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

INKJET

PART NO.	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
BJC-3000							
BC-33	Colour Ink Cartridge	23-98-41	25.28	26.45	26.19	25.92	NEW
BCI-3BK	Black Ink Tank	26-17-71	5.97	6.25	6.19	6.13	
BCI-3C	Cyan Ink Tank	23-08-50	4.68	5.25	5.09	4.94	NEW
BCI-3M	Magenta Ink Tank	23-39-04	4.68	5.25	5.09	4.94	NEW
BCI-3Y	Yellow Ink Tank	23-27-80	4.68	5.25	5.09	4.94	NEW
BC-34	Colour Photo Ink Cartridge	23-53-82	25.28	26.45	26.19	25.92	NEW
BCI-3PBK	Black Photo Ink Cartridge	23-78-05	4.73	4.95	4.90	4.85	NEW
BJC-2000/4000/5000 SERIES							
BC-20	Black Ink Cartridge	21-71-16	16.99	17.95	17.77	17.59	
BC-20	Black Ink Cartridge (**5 pack**)	04-30-74	82.15	85.95	85.09	84.24	
BC-23	Black Ink Cartridge (**BJC-5000 only**)	23-12-95	19.07	19.95	19.75	19.55	
BC-21e	Colour Ink Cartridge	21-71-23	26.65	26.95	26.82	26.77	
BC-21e	Colour Ink Cartridge (**5 pack**)	04-30-81	125.46	◗	129.95	128.65	
BCI-21BK	Black Ink Tank	21-71-30	3.75	4.95	4.80	4.66	
BCI-21BK	Black Ink Tank (**5 pack**)	04-30-98	18.65	21.95	21.29	20.65	
BCI-21C	Colour Ink Tank	21-71-47	9.51	9.95	9.85	9.75	
BCI-21C	Colour Ink Tank (**5 pack**)	04-31-08	42.96	44.95	44.50	44.06	
BC22e	BJC-4200/4300/4550/4650/5000/5500 Photo Ink Cartridge	22-64-37	16.20	16.95	16.78	16.61	✂
BC22PKIT	BJC-4200/4300/4550/4650/5000/5500 Photo Kit	22-64-68	19.07	19.95	19.75	19.55	
BC29F	BJC-4200/4300/4550/4650/5000/5500 Fluorescent Ink Cartridge	22-64-44	19.07	19.95	19.75	19.55	
BJC-6000 SERIES							
BC-30	Black Ink Cartridge	23-29-33	20.02	20.95	20.74	20.53	
BC-31	Colour Ink Cartridge	23-29-40	21.94	22.95	22.72	22.49	
BC-32	Photo Ink Cartridge	23-29-57	21.94	22.95	22.72	22.49	
BCI-3BK	Black Ink Tank	26-17-71	5.97	6.25	6.19	6.13	
BCI-3C	Cyan Ink Tank	23-08-50	4.68	5.25	5.09	4.94	NEW
BCI-3M	Magenta Ink Tank	23-94-95	5.40	5.65	5.59	5.54	NEW
BCI-3Y	Yellow Ink Tank	23-27-80	4.68	5.25	5.09	4.94	NEW

CANON PRINTER SUPPLIES CONTINUED ON 956

OTHER ITEMS

FOR CANON INKJET PRINTERS SEE PAGES 377–381

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CANON PRINTER SUPPLIES CONTINUED FROM 955

PRINTER SUPPLIES

Canon

INKJET

	CANON PART NO.	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	BJC-7000 SERIES						
	BC-60	Black Ink Cartridge & Printhead	22-95-37	19.07	19.95	19.75	19.55
	BC-61	Colour Ink Cartridge & Printhead	22-95-44	20.98	21.95	21.73	21.51
	BCI-61	Colour Ink Tank (for BC-61)	22-95-51	16.88	18.95	18.38	17.83
	BC-62T	Photo Ink Cartridge & Printhead	23-17-74	28.63	29.95	29.65	29.35
	BCI-62	Photo Ink Tank (for BC-62)	22-95-75	19.07	19.95	19.75	19.55
	BJC-8200						
NEW	BC-50	Photo Ink Cartridge (6 ink tanks)	23-31-16	58.26	60.95	60.34	59.74
NEW	BCI-5BK	Black Ink Tank	23-53-81	5.40	5.65	5.59	5.54
NEW	BCI-5C	Cyan Ink Tank	23-94-95	5.40	5.65	5.59	5.54
NEW	BCI-5M	Magenta Ink Tank	23-17-39	5.40	5.65	5.59	5.54
NEW	BCI-5Y	Yellow Ink Tank	23-70-38	5.40	5.65	5.59	5.54
NEW	BCI-5PC	Cyan Photo Ink Tank	23-12-63	5.40	5.65	5.59	5.54
NEW	BCI-5PM	Magenta Photo Ink Tank	23-08-51	5.40	5.65	5.59	5.54
	CANON BN22						
	BJI-101	BN22 Black Ink Cartridge **(6-pack)**	21-54-86	19.07	19.95	19.75	19.55
	CANON CLC-10						
	BC-40BK	CLC-10 Black Ink Cartridge	22-00-62	33.41	34.95	34.60	34.25
	BC-40C	CLC-10 Cyan Ink Cartridge	22-00-79	33.41	34.95	34.60	34.25
	BC-40Y	CLC-10 Yellow Ink Cartridge	22-00-86	33.41	34.95	34.60	34.25
	BC-40M	CLC-10 Magenta Ink Cartridge	22-00-93	33.41	34.95	34.60	34.25

LASER

PART NO.	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
EP-S/SX	LBP-8 II/R/T/V/III/R/T/SX Black Toner Cartridge	21-37-01	40.10	41.95	41.53	41.12
EP-E/EX	LBP-8 IV/EX/LBP-1260/1260+ Black Toner Cartridge	21-40-30	47.74	49.95	49.45	48.96
EP-P/PX	LBP-4U/41/LBP-430W Black Toner Cartridge	22-14-32	34.36	35.95	35.59	35.23
EP-HTONERBK	CLBP-360PS Black Toner Cartridge	11-44-39	63.04	65.95	65.29	64.64
EP-HTONERBC	CLBP-360PS Cyan Toner Cartridge	23-00-07	67.36	69.95	69.25	68.56
EP-HTONERBM	CLBP-360PS Magenta Toner Cartridge	23-00-14	67.36	69.95	69.25	68.56
EP-HTONERBY	CLBP-360PS Yellow Toner Cartridge	23-00-21	67.36	69.95	69.25	68.56
EP-HDRUM	CLBP-360PS Drum Unit	86-94-16	106.15	♦	109.95	108.85
SHI	CLBP-360PS Silicon Oil	22-82-60	20.45	22.95	22.26	21.59
EP-A	LBP-460/465/660 Black Toner Cartridge	22-11-57	28.63	29.95	29.65	29.35
EP-L/LX	LBP-4/4+/Lite/LX Black Toner Cartridge	22-96-16	45.83	47.95	47.47	47.00
EP-W	LBP-2460 Black Toner Cartridge	22-87-96	93.62	97.95	96.97	96.00

CANON SPECIALIST FILM & PAPER ON 957

OTHER ITEMS FOR CANON INKJET PRINTERS SEE PAGES 377–381

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FILM AND PAPER

Canon







FILM

PART NO:	DESCRIPTION	Pack Qty	CAT NO	Web Price	PRICE PER PACK £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
CF-102A4	Transparencies	50	40-75-00	25.79	28.95	28.08	27.24
BF-102A4	Back Print Film A4	20	41-04-32	19.07	19.95	19.75	19.55
BF-102A3	Back Print Film A3	20	41-26-29	27.67	28.95	28.66	28.37
BF-102A2	Back Print Film A2	10	41-28-87	37.23	38.95	38.56	38.17
HG-101	High Gloss Film A4	20	41-25-95	13.32	14.95	14.50	14.07
HG-101A3	High Gloss Film A3	20	99-92-76	24.80	25.95	25.69	25.43
HG-101A2	High Gloss Film A2	10	89-94-31	24.80	25.95	25.69	25.43

PAPER

GP-301A4	Glossy Photo Paper A4	20	68-18-14	6.64	6.95	6.88	6.81
GP-301A3	Glossy Photo Paper A3	20	46-31-02	11.42	11.95	11.83	11.71
LC-101A4	Coated A4 Paper	200	40-01-50	16.20	16.95	16.78	16.61
LC-101A3	Coated A3 Paper	200	40-00-64	33.41	34.95	34.60	34.25
LC-301A4	Bubble Jet Paper A4	200	41-25-64	8.86	9.95	9.65	9.36
LC-301A3	Bubble Jet Paper A3	200	41-26-12	16.20	16.95	16.78	16.61
LC-301A2	Bubble Jet Paper A2	100	88-86-93	17.16	17.95	17.77	17.59
FS-101	Fabric Sheet	10	41-26-05	27.67	28.95	28.66	28.37
HR-101A4	High Resolution Paper A4	200	41-25-71	15.25	15.95	15.79	15.63
HR-101A3	High Resolution Paper A3	100	99-92-69	15.25	15.95	15.79	15.63
TR-201A3	T-Shirt Transfer A3	5	69-01-97	10.47	10.95	10.84	10.73
LC301BP	Banner Paper	5×A4	69-02-07	3.52	3.95	3.83	3.72
PR-101	Photo Paper A4	15	23-76-63	6.64	6.95	6.88	6.81 NEW

CANON FAX SUPPLIES CONTINUED ON PAGE 958

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

▼ **NEW** *item on this page* ▼

FOR CANON SPECIALIST FILM & PAPER SEE 957

FAX SUPPLIES

Canon





INKJET

PART NO.	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
BUBBLEJET FAX B100/110/50						
BX3	B100/B110/B150/MP10 Black Ink Cartridge	82-29-96	16.56	16.95	16.78	16.61
NEW BX3	B100/B110/B150/MP10 Black Ink Cartridge **(5 pack)**	04-31-35	65.90	68.95	68.26	67.58
B200/2005/B60/70/75						
BC01	B200/2005/B60/70/75 Black Ink Cartridge	21-11-05	12.70	13.95	13.53	13.13
BC01	B200/2005/B60/70/75 Multipack (**5 pack**)	05-51-89	57.30	59.95	59.35	58.76
B320/340/360						
BX2	B320/340/360 Black Ink Cartridge	21-72-26	12.38	12.95	12.82	12.69
MPC 20/30/50/70/80 Multi-Functional						
BC20	MPC30 Black Ink Cartridge	21-71-16	16.99	17.95	17.77	17.59
BC21E	MPC30 Colour Ink Cartridge	21-71-23	26.65	26.95	26.82	26.77
BCI-21BK	MPC30 Black Ink Tank	21-71-30	3.75	4.95	4.80	4.66
BCI-21C	MPC30 Colour Ink Tank	21-71-47	9.51	9.95	9.85	9.75

LASER

PART NO.	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
L250/L300/Multi L60/L90/L260i						
FX3	L300 Black Toner Cartridge	22-67-98	39.21	39.95	39.76	39.59
L500/L600						
FX2	L500/L600 Black Toner Cartridge	22-63-96	41.05	42.95	42.52	42.10
L700/760/770/780/790/3000/3300/9550						
FX1	L700/760/770/790/3000/3300i/9550 Black Toner Cartridge.	81-41-93	44.88	46.95	46.48	46.02
L800/900						
FX4	L800/900 Black Toner Cartridge	41-35-87	47.74	49.95	49.45	48.96
L910/920						
EPS/SX	L910/L920 Black Toner Cartridge	21-37-01	40.10	41.95	41.53	41.12

OTHER ITEMS

FOR INKJET FILM SEE PAGE 1027

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRINTER SUPPLIES

digital

LASER

PART NO.	DESCRIPTION	PAGE YIELD	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DIGITAL DECLASER 1000/1800/2100/3000/3500/5100							
LNXX-AC	DECLaser 2100/2200 Toner Kit	4,000	21-88-78	39.43	41.25	40.84	40.43
LN08X-AB	DECLaser 3000 Photoreceptor Kit	20,000	21-88-92	105.00	◗	108.75	107.66
LN14X-AA	DECLaser 3500 Toner Kit	4,500	22-17-17	61.60	64.45	63.81	63.17
LN0XX-AA	DECLaser 5100 Supplies Cartridge	6,000	21-89-19	54.24	56.75	56.18	55.62
DIGITAL LN03/LN17							
LNO3X-AC	DECLaser LNO3 Toner Kit	3,000	94-10-42	25.76	26.96	26.68	26.41
LN03X-AC	DECLaser LNO3 Toner Kit (**5 pack**)	15,000	04-88-73	130.29	◗	134.95	133.60
LNO3X-AD	DECLaser LNO3 User Maintenance Kit	10,000	94-10-59	103.94	◗	108.95	106.95
DIGITAL LPS 17/20/32/40							
LPS1X-AA	LPS17 Toner Kit	8,000	21-89-26	66.86	69.95	69.25	68.56
LPS1X-AC	LPS17 Maintenance Kit	200,000	21-89-33	276.08	◗	285.95	283.09
LPS2X-AA	LPS20 Toner Kit	20,000	21-89-40	60.17	62.95	62.32	61.70
LPS2X-AB	LPS20 Supplies Kit	20,000	21-89-57	38.92	41.95	40.95	39.95
LPS2X-AC	LPS20 OPC Drum Kit	80,000	21-89-64	96.26	99.95	98.95	97.96

RIBBONS

PART NO.	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
LA30R-KA	LA30/N/W Black Ribbon	22-46-42	6.64	6.95	6.88	6.81
LA30R-KA	LA30/N/W Black Ribbon (**10 pack**)	04-48-60	63.99	66.95	66.28	65.62
LA10R-06	LA34/38/100/210 Re-inking Black Ribbon	21-29-46	3.70	4.10	4.05	4.00
LA10R-06	LA34/38/100/210 Black Ribbon (**5 pack**)	04-48-77	18.11	18.95	18.76	18.57
LA70R-06	LA70 Continuous Loop Black Ribbon	21-91-38	2.29	2.65	2.60	2.55
LA70R-06	LA70 Cont. Loop Black Ribbon (**10 pack**)	04-48-84	21.94	22.95	22.72	22.49
LA75R-KA	LA50/75/75+ Continuous Loop Black Ribbon	21-91-45	2.71	3.00	2.95	2.90
LA75R-KA	LA50/75/75+ Black Ribbon (**5 pack**)	04-48-91	12.80	14.25	13.75	13.25
L120R-12	LA120/180 Dual Spool Black Ribbon	21-29-53	4.41	4.95	4.80	4.66
LA31R-06	LA310 Black Ribbon	21-91-90	5.26	5.50	5.45	5.39
LA31R-06	LA310 Black Ribbon (**5 pack**)	04-88-80	25.76	26.95	26.68	26.41
LA42R-KA	LA324 Continuous Loop Black Ribbon	21-92-00	6.19	6.95	6.74	6.54
LA42R-KA	LA324 Cont. Loop Black Ribbon (**5 pack**)	04-49-01	30.54	31.95	31.63	31.31
LGXXR-04	LG01/LG02 Black Ribbon	21-29-60	20.51	21.95	21.75	21.25
LGXXR-04	LG01/LG02 Black Ribbon (**5 pack**)	04-88-97	102.14	◗	105.00	103.95
LGR31-01	LG31 Black Ribbon	21-92-62	35.80	37.45	37.08	36.70

OTHER ITEMS *FOR OUR RANGE OF PRINTERS SEE PAGES 371–458*

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

EPSON

INKJET COMPATIBILITY CHART

KEY:
● = Black Ink
● = Magenta Ink
● = 3 Colour Ink Cart
● = Yellow Ink
● = Cyan Ink
✶ = Fluorescent Ink

Epson. Ref.	Description	Cat. No.
S020025	Black Ink Cartridge	21-00-58
S020031	Black Ink Cartridge	21-60-69
S020034	Black Ink Cartridge	21-66-36
S020039	Black Ink Cartridge	21-65-02
S020047	Black Ink Cartridge	22-29-81
S020062	Black Ink Cartridge	22-24-24
S020093	Black Ink Cartridge	22-45-56
S020108	Black Ink Cartridge	22-72-54
S020118	Black Ink Cartridge	22-78-69
S020036	Colour Ink Cartridge	21-66-43
S020049	Colour Ink Cartridge	22-21-78
S020066	Colour Ink Cartridge	22-74-05
S020089	Colour Ink Cartridge	22-72-47
S020097	Colour Ink Cartridge	22-45-63
S020122	Yellow Ink Cartridge	22-78-90
S020126	Magenta Ink Cartridge	22-78-83
S020130	Cyan Ink Cartridge	22-78-76
S020138	4-colour Ink Cartridge	22-86-17
S020110	Photo Colour Cartridge	22-82-39
S020147	Cyan/Light Cyan Ink Cartridge	23-01-55
S020143	Magenta/Light Ink Cartridge	23-01-48
T001011	5 Colour Light Ink Cartridge	23-15-19
S020187	Black Ink Cartridge	23-08-49
S020189	Black Ink Cartridge*2	23-08-56
S020191	Colour Ink Cartridge*5	23-08-63
SO20193	5 Colour Ink Cartridge	23-28-47
T003011	Black Ink Cartridge	23-28-54
T005011	Colour Ink Cartridge	23-28-61

Stylus Color 1200
Stylus Photo/EX/700
Stylus Color 900
Stylus Color 860
Stylus Color 800/850
Stylus Photo 750
Stylus Color 740/760
Stylus Color 640/660
Stylus Color 600
Stylus Color 500
Stylus Color 440/460
Stylus Color 400
Stylus Color 300
Stylus Color 200
Stylus 200
Stylus Color
Stylus Pro
Stylus Pro XL
Stylus Pro XL+
Stylus 820
Stylus Color IIs
Stylus Color II
Stylus Color 1520
Stylus Color 3000
Stylus Pro 5000
Stylus 1500
Stylus 300
Stylus 400/800+/1000

OTHER ITEMS

FOR INKJET PRINTERS SEE PAGES 374–396

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRINTER SUPPLIES — EPSON



INKJET

PART NO.	DESCRIPTION	PAGE YIELD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
STYLUS COLOR PRO XL/XL+							
S020036	Stylus Color/Pro XL Colour Ink Cartridge	670pgs	21-66-43	16.95	17.95	17.77	17.59
S020036	Stylus Color/Pro XL Colour Ink Cartridge (**5 pack**)	3350pgs	05-52-51	81.95	85.95	85.09	84.24
S020034	Stylus Color Pro XL/Pro XL+ Black Ink Cartridge	1170pgs	21-66-36	7.89	8.25	8.17	8.09
S020034	Stylus Color/Pro XL+ Black Ink Cartridge (**5 pack**)	5850pgs	05-52-44	37.68	38.90	38.51	38.13
S020066	Stylus Color/Pro XL+ Colour Ink Cartridge	620pgs	22-74-05	17.16	17.95	17.77	17.59
S020066	Stylus Color/Pro XL+ Colour Ink Cartridge (**5 pack**)	3100pgs	04-56-25	84.83	88.75	87.86	86.98
STYLUS COLOR II/IIs/200/300/500							
S020047	Stylus Color II/IIs/200 Black Ink Cartridge	540pgs	22-29-81	10.72	11.95	11.59	11.24
S020047	Stylus Color II/IIs/200 Black Ink Cartridge (**5 pack**)	2700pgs	05-52-37	53.48	55.95	55.39	54.84
S020049	Stylus Color II/IIs Colour Ink Cartridge	340pgs	22-10-78	14.29	14.95	14.80	14.65
S020049	Stylus Color II/IIs Colour Ink Cartridge (**5 pack**)	1700pgs	04-16-36	71.45	73.95	73.21	72.48
S020097	Stylus Color 200/500 Colour Ink Cartridge	320pgs	22-45-63	14.75	16.45	15.96	15.48
S020097	Stylus Color 200/500 Colour Ink Cartridge (**5 pack**)	1600pgs	05-52-75	73.55	76.95	76.18	75.42
S020138	Stylus Color 300 4-Colour Ink Cartridge	*	22-86-17	10.47	10.95	10.84	10.73
S020138	Stylus Color 300 4-Colour Ink Cartridge (**5 pack**)	*	04-56-32	51.57	53.95	53.41	52.88

***Black = 450 pages each. Colour = 220 pages each.**

EPSON PRINTER SUPPLIES CONTINUED ON 962

OTHER ITEMS
FOR INKJET PRINTERS SEE PAGES 371–458

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

EPSON PRINTER SUPPLIES CONTINUED FROM 961

PRINTER SUPPLIES — EPSON

INKJET

PART NO.	DESCRIPTION	PAGE YIELD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
ACTION EPSON SPECIAL BUNDLES							
S020209 + S020191	Black Ink Cartridge (2 pack) + Colour Ink Cartridge	—	04-53-67	29.58	30.25	30.07	29.89
S020208 + S020191	Black Ink Cartridge (2 pack) + Colour Ink Cartridge	—	04-12-56	28.84	29.95	29.65	29.35
STYLUS COLOR 400/500/600/800/850/1520							
S020093	Stylus Color 400/500/600 Black Ink Cart.	540pgs	22-45-56	12.70	13.95	13.53	13.13
S020206	Stylus Color 400/500/600 Black Ink Cartridge (**Twin Pack**)	1080pgs	23-17-64	20.02	20.95	20.74	20.53
S020093	Stylus Color 400/500/600 Black Ink Cartridge (**5 pack**)	2700pgs	05-52-68	58.26	60.95	60.34	59.74
S020089	Stylus Color 400/600/800/850/1520 Tri-colour Ink Cartridge	300pgs	22-72-47	12.70	13.45	13.32	13.18
S020089	Stylus Color 400/600/800/850/1520 Tri-colour Ink Cartridge (**5 pack**)	1500pgs	04-56-49	60.17	62.95	62.32	61.70
S020108	Stylus Color 800/850/1520 Black Ink Cartridge	900pgs	22-72-54	13.95	14.95	14.50	14.07
S020207	Stylus Color 800/850/1520 Black Ink Cartridge (**Twin Pack**)	1800pgs	23-30-91	21.94	22.95	22.72	22.49
S020108	Stylus Color 800/850/1520 Black Ink Cartridge (**5 pack**)	4500pgs	04-56-56	65.90	68.95	68.26	67.58
STYLUS COLOR 440/460/640/660/740/760/860/PHOTO 750							
S020187	Stylus Color 440/460/640/660 Black Ink Cart.	540pgs	23-08-49	11.60	12.25	12.13	12.01
S020208	Stylus Color 440/460/640/660/Photo 750/ Photo 120 Black Ink Cartridge(**Twin Pk**)	1080pgs	23-53-48	20.02	20.95	20.74	20.53
S020189	Stylus Color 740/760/860 Black Ink Cartridge	900pgs	23-08-56	12.66	13.25	13.12	12.99
S020189	Stylus Color 740/760/860 Black Ink Cartridge (**5 pack**)	4500pgs	04-17-73	62.08	64.95	64.30	63.66
S020209	Stylus Color 740/760/860 Black Ink Cartridge (**Twin Pack**)	1800pgs	23-94-76	22.89	23.95	23.71	23.47
S020191	Stylus Color 440/460/640/660/740/760/ 860 Colour Ink Cart.	300pgs	23-08-63	11.90	12.45	12.33	12.20
S020187	Stylus Photo 750 Black Ink Cartridge	—	23-08-49	11.60	12.25	12.13	12.01
S020193	Stylus Photo 750 Colour Ink Cartridge	—	23-28-47	8.94	9.35	9.26	9.16
STYLUS COLOR 900							
T003011	Stylus Color 900 Black Ink Cartridge	1200pgs	23-28-54	16.88	18.95	18.38	17.83
T003012	Stylus Color 900 (**Twin Pack**)	2400pgs	23-17-19	25.76	26.95	26.68	26.41
T005011	Stylus Color 900 Colour Ink Cartridge	570pgs	23-28-61	20.02	20.95	20.74	20.53

EPSON PRINTER SUPPLIES CONTINUED ON 963

OTHER ITEMS — FOR EPSON INKJET PRINTERS SEE PAGES 382–387

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

EPSON PRINTER SUPPLIES CONTINUED FROM 962

PRINTER SUPPLIES

EPSON

INKJET

PART NO.	DESCRIPTION	PAGE YIELD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
STYLUS COLOR 200/300							
S020097	Stylus 200 Color Ink Cartridge	320pgs	22-45-63	14.75	16.45	15.96	15.48
S020097	Stylus 200 Color Ink Cartridge (**5 pk**)	1600pgs	05-52-75	73.55	76.95	76.18	75.42
S020031	Stylus 300 Black Ink Cartridge	0.7M	21-60-69	13.95	14.65	14.50	14.36
S020031	Stylus 300 Black Ink Cartridge (**5 pk**)	3.5M	04-56-94	65.90	68.95	68.26	67.58
STYLUS 400/800+/1000							
S020025	Stylus 400/800+/1000 Black Ink Cartridge	0.7M	21-00-58	6.17	6.45	6.39	6.32
S020039	Stylus 400/800+/1000 Black Ink Cartridge (**2 pack**)	1.4M	21-65-02	11.42	11.95	11.83	11.71
S02[illegible]5	Stylus 400/800+/1000 Black Ink Cartridge (**5 pk**)	3.5M	04-16-29	28.36	29.45	29.16	28.86
[illegible]YLUS 200/820/1500							
S020047	Stylus 820/200 Black Ink Cartridge	340pgs	22-29-81	10.72	11.95	11.59	11.24
S020047	Stylus 820/200 Black Ink Cartridge (**5 pk**)	1700pgs	05-52-37	53.48	55.95	55.39	54.84
S020049	Stylus 820/1500 Colour Ink Cartridge	340 pgs	22-10-78	14.29	14.95	14.80	14.65
S020049	Stylus 820/1500 Colour Ink Cartridge (**5 pk**)	1700 pgs	04-16-36	71.45	73.95	73.21	72.48
S020062	Stylus 1500 Black Ink Cartridge	3M	22-24-24	25.45	27.95	27.45	27.25
S020062	Stylus 1500 Black Ink Cartridge (**5 pk**)	15M	04-57-04	122.38	◗	129.95	127.95
STYLUS COLOR 3000							
S020118	Stylus Color 3000 Black Ink Cartridge	3800 pgs	22-78-69	31.95	33.95	33.61	33.27
S020130	Stylus Color 3000 Cyan Ink Cartridge	2100 pgs	22-78-76	30.54	31.95	31.63	31.31
S020130	Stylus Color 3000 Cyan Ink Cartridge (**5 pk**)	10,500 pgs	04-56-63	144.77	◗	149.95	148.45
S020126	Stylus Color 3000 Magenta Ink Cartridge	2100 pgs	22-78-83	30.54	31.95	31.63	31.31
S020126	Stylus Color 3000 Magenta Ink Cartridge (**5 pk**)	10,500 pgs	04-56-70	152.68	◗	156.95	155.38
S020122	Stylus Color 3000 Yellow Ink Cartridge	2100 pgs	22-78-90	30.54	31.95	31.63	31.31
S020122	Stylus Color 3000 Yellow Ink Cartridge (**5 pk**)	10,500 pgs	04-56-87	152.68	◗	156.95	155.38
STYLUS PRO 5000/PROOFER 5000							
S020118	Stylus Pro 5000/Proofer 5000 Black Ink Cartridge	3800 pgs	22-78-69	31.95	33.95	33.61	33.27
S020122	Stylus Pro 5000/Proofer 5000 Yellow Ink Cartridge	2100 pgs	22-78-90	30.54	31.95	31.63	31.31
S020122	Stylus Pro 5000/Proofer 5000 Yellow Ink Cartridge (**5 pk**)	10,500 pgs	04-56-87	152.68	◗	156.95	155.38
S020147	Stylus Pro 5000/Proofer 5000 Cyan/Light Cyan Ink Cartridge	3000 pgs	23-01-55	31.49	32.95	32.62	32.29
S020143	Stylus Pro 5000/Proofer 5000 Magenta/Light Magenta Ink Cartridge	3000 pgs	23-01-48	31.49	32.95	32.62	32.29

EPSON PRINTER SUPPLIES CONTINUED ON 964

OTHER ITEMS

FOR EPSON INKJET PRINTERS SEE PAGES 382–387

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

▼ **NEW** *item on this page* ▼

EPSON PRINTER SUPPLIES CONTINUED FROM 963

PRINTER SUPPLIES — EPSON



INKJET

	PART NO.	DESCRIPTION	PAGE YIELD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	STYLUS PHOTO 870/875							
NEW	T007401	Black Ink Cartridge	–	23-17-37	12.38	12.95	12.82	12.69
NEW	T008401	Colour Ink Cartridge	–	23-22-82	9.99	10.45	10.35	10.24
	STYLUS PHOTO 1200							
✂	S020187	Stylus Photo 1200 Black Ink Cartridge	540 pgs	23-08-49	11.60	12.25	12.13	12.01
	T001011	Stylus Photo 1200 5 Colour Ink Cartridge	370 pgs	23-15-19	13.33	13.95	13.81	13.67
	STYLUS PHOTO 1270							
NEW	T007401	Black Ink Cartridge	–	23-17-37	12.38	12.95	12.82	12.69
NEW	T009401	Colour Ink Cartridge	–	23-49-60	13.33	13.95	13.81	13.67
	STYLUS PHOTO/PHOTO EX/PHOTO 700							
	S020093	Stylus Photo Black Ink Cartridge	540 pgs	22-45-56	12.70	13.95	13.53	13.13
	S020093	Stylus Photo Black Ink Cartridge (**5 pack**)	2700 pgs	05-52-68	58.26	60.95	60.34	59.74
	S020110	Stylus Photo Colour Ink Cartridge	190 pgs	22-82-39	9.76	10.95	10.62	10.30
	S020110	Stylus Photo Colour Ink Cartridge (**5 pack**)	950 pgs	04-16-43	47.18	52.95	51.36	49.82
	SQ850/870/1170/2000/2550							
	S020002	SQ850/2550 Black Ink Cartridge	3M	20-92-27	14.39	15.40	15.25	15.05
	S020002	SQ850/2550 Black Ink Cartridge (**5 pack**)	15M	04-16-50	72.18	74.95	74.20	73.46
	S020010	SQ870/1170 Black Ink Cartridge	3M	21-36-77	15.25	15.95	15.79	15.63
	S020010	SQ870/1170 Black Ink Cartridge (**5 pack**)	15M	04-16-74	75.07	77.95	77.17	76.40
	7760	SQ2500 Black Ink Cartridge	3M	20-52-52	14.52	15.95	15.75	15.45

EPSON PRINTER SUPPLIES CONTINUED ON 965

OTHER ITEMS

FOR INKJET FILM SEE PAGES 968–970

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

EPSON PRINTER SUPPLIES CONTINUED FROM 964

PRINTER SUPPLIES

EPSON



LASER

PART NO.	DESCRIPTION	PAGE YIELD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
S051020	EPL3000 Imaging Cartridge	4,500	21-68-94	67.36	69.95	69.25	68.56
S051068	EPL2700T Toner & Drum Collector Cartridge	—	23-53-50	107.46	◗	109.95	108.85
S050002	EPL4000/4100/4300 Toner Cartridge	5,000	94-10-66	81.81	84.95	84.10	83.26
S051005	EPL4000/4100/4300 Drum Unit	30,000	94-10-73	111.82	◗	114.95	113.80
S051011	EPL5000/5200 Imaging Cartridge	6,000	21-00-41	83.11	86.95	86.08	85.22
S050005	EPL5500 Toner Cartridge	3,000	22-24-00	24.99	25.95	25.69	25.43
S051029	EPL5500 Drum Kit	20,000	22-24-17	36.27	37.95	37.57	37.19
S051016	EPL5600/N1200 Imaging Cartridge	6,000	21-64-92	61.59	63.95	63.31	62.68
S050010	EPL5700 Toner Cartridge	6,000	23-01-62	52.52	54.95	54.40	53.86
S051055	EPL5700 Drum Unit	20,000	23-01-79	35.58	36.95	36.58	36.21
S051009	EPL7100/7500/8100 Imaging Cartridge	8,000	21-35-81	113.07	◗	114.95	114.26
S050019	EPL-C8000 Black Toner Cartridge	4,500	23-10-44	38.47	39.95	39.55	39.15
S050018	EPL-C8000 Cyan Toner Cartridge	6,000	23-10-51	66.40	68.95	68.26	67.58
S050017	EPL-C8000 Magenta Toner Cartridge	6,000	23-10-68	65.90	68.95	68.26	67.58
S050016	EPL-C8000 Yellow Toner Cartridge	6,000	23-10-75	66.40	68.95	68.26	67.58
S051061	EPL-C8000 Drum Cartridge	50,000	23-10-82	190.61	◗	195.95	193.99
S051022	EPL9000 Imaging Cartridge	6500	21-73-36	122.91	◗	124.95	124.20
S051056	EPL-N1600 Imaging Cartridge	8,500	23-10-20	67.36	69.95	69.25	68.56
S051035	EPL-N2000 Imaging Cartridge	10,000	22-66-40	106.96	◗	109.95	108.85
S051060	EPL-N4000 Imaging Cartridge	23,000	23-10-37	150.73	◗	154.95	153.40
5760	GQ3500/5000 Toner Cartridge	1,275	20-58-50	13.33	13.95	13.81	13.67
5793	GQ3500/5000 Drum Unit	14,000	20-58-67	95.10	98.75	97.76	96.78

EPSON PRINTER SUPPLIES CONTINUED ON PAGE 966

OTHER ITEMS

FOR EPSON LASER PRINTERS SEE PAGES 406, 407

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRINTER SUPPLIES — EPSON

If quality and reliability were the reasons for choosing an **Epson** printer in the first place – don't cheat on the ribbon. The ribbon is the key to quality printing, no matter how good the printer, use an inferior ribbon and you jeopardise not only the print quality – but the printer mechanism itself.

RIBBONS

PART NO.	DESCRIPTION	CHAR YIELD	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
S015032	LQ100 Black Ribbon	2M	21-34-95	2.85	3.25	3.15	2.95
S015032	LQ100 Black Ribbon (**10 pack**)	20M	04-51-68	28.66	31.25	31.00	29.15
S015060	LQ150 Black Ribbon	2M	21-61-24	3.78	3.95	3.91	3.87
S015060	LQ150 Black Ribbon (**10 pack**)	20M	04-51-75	37.03	38.45	38.07	37.68
S015061	LQ150 Colour Ribbon	2.2M	21-61-31	11.42	11.95	11.83	11.71
S015061	LQ150 Colour Ribbon (**5 pack**)	11M	04-51-82	54.85	56.95	56.38	55.82
7768	LQ200/300/400/500/800 Black Film	0.2M	21-72-64	6.45	6.75	6.68	6.62
7768	LQ200/300/400/500/800 Black Film (**5 pack**)	1M	04-51-99	30.77	31.95	31.63	31.31
SO15077	LQ300 Colour Ribbon	2.2M	21-72-71	12.47	12.95	12.82	12.69
SO15077	LQ300 Colour Ribbon (**5 pack**)	11M	04-52-09	60.14	62.45	61.83	61.21
7770	LQ1000/1050/1070/1170/1070+ Black Film	—	22-30-38	8.55	8.95	8.86	8.77
7770	LQ1000/1050/1070/1170/1070+ Black Film (**5 pack**)	—	04-52-16	41.05	42.95	42.52	42.10
8753	LQ1500 Black Ribbon	2M	22-74-50	4.73	4.95	4.90	4.85
8753	LQ1500 Black Ribbon (**5 pack**)	10M	04-52-23	21.94	22.95	22.72	22.49
7753	LQ200/300/400/500/570/800/870 Black Ribbon	2M	20-30-65	2.47	2.95	2.75	2.65
7753	LQ200/300/400/500/570/800/870 Black Ribbon (**5 pack**)	10M	04-55-22	12.27	13.75	13.45	13.15
7754	LQ1000/1050/1070/1170 Black Ribbon	2M	20-30-58	2.74	3.35	3.25	3.10
7754	LQ1000/1050/1070/1170 Black Ribbon (**5 pack**)	10m	04-55-39	13.13	14.95	14.65	14.25
8750	FX800/850/880/LX300/400/800/850/ MX/RX80 Black Ribbon	3M	20-30-89	1.84	2.15	2.05	1.95
8750	FX800/850/880/LX300/400/800/850/ MX/RX80 Black Ribbon (**10 pack**)	30m	04-55-46	18.11	18.95	18.76	18.57
S015091	FX980 Black Ribbon	–	23-17-80	10.47	10.95	10.84	10.73
8755P	FX1000/1050/MX/RX/LX1050 Black Ribbon	13M	20-28-77	2.27	2.75	2.55	2.40
8755P	FX1000/1050/MX/RX/LX1050 Black Ribbon (**5 pack**)	65M	04-55-53	11.34	12.95	12.45	11.95
8766	DFX5000+/8000/8500 Black Ribbon	15M	20-74-63	12.24	14.50	14.35	14.15
8766	DFX5000+/8000/8500 Black Ribbon (**5 pack**)	75M	04-55-60	58.58	65.75	63.78	61.86

EPSON PRINTER SUPPLIES CONTINUED ON 967

MORE EPSON RIBBONS OVERLEAF!

OTHER ITEMS

FOR DOT MATRIX PRINTERS SEE PAGES 441–451

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

EPSON PRINTER SUPPLIES CONTINUED FROM 966

PRINTER SUPPLIES — EPSON

RIBBONS

PART NO.	DESCRIPTION	CHAR YIELD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
S015016	LQ670/2550/2500/1060/860 Black Ribbon	4M	21-35-05	4.41	4.95	4.80	4.66
S015016	LQ670/2550 Black Ribbon (**10 pack**)	40M	04-52-30	42.96	44.95	44.50	44.06
7763	LQ2550 4 Colour Ribbon	2.2M	20-75-73	10.55	10.95	10.84	10.73
7763	LQ2550 4 Colour Ribbon (**5 pack**)	11M	04-52-47	52.82	54.50	53.96	53.42
7764	LQ2550/1060/860 Black Ribbon	0.1M	20-74-87	9.58	9.95	9.85	9.75
7764	LQ2550/1060/860 Black Ribbon (**5 pack**)	0.5M	04-52-54	46.18	47.95	47.47	47.00
8762L	LQ80/86/GX80 Black Ribbon	1.5M	20-29-18	3.45	4.20	4.00	3.80
8762L	LQ80/86/GX80 Black Ribbon (**5 pack**)	7.5M	04-52-61	17.14	19.75	19.25	18.75
S015047	LX100 Black Ribbon	3M	21-46-76	3.34	3.75	3.64	3.53
S015047	LX100 Black Ribbon (**5 pack**)	15M	04-52-78	15.10	16.95	16.44	15.95
S015073	LX300 Colour Ribbon	2.2M	21-66-74	13.39	15.75	15.50	15.25
S015073	LX300 Colour Ribbon (**5 pack**)	11M	04-52-85	65.51	73.95	73.45	72.95
8763	EX800/1000 Black Ribbon	2M	20-43-01	3.23	3.90	3.80	3.60
8763	EX800/1000 Black Ribbon (**5 pack**)	10M	04-52-92	15.93	18.50	18.00	17.50
8764	EX800/1000 4 Colour Ribbon	2.2M	20-58-43	7.60	7.95	7.87	7.79
8764	EX800/1000 4 Colour Ribbon (**5 pack**)	11M	04-53-02	37.51	38.95	38.56	38.17
S015085	FX2170 Black Ribbon	12M	22-23-83	11.42	11.95	11.83	11.71
S015085	FX2170 Black Ribbon (**5 pack**)	60M	04-53-19	55.39	57.95	57.37	56.80
S015086	FX2170/LQ2070/LQ2170 Black Ribbon	8M	81-46-12	11.54	12.95	12.56	12.18
S015086	FX2170/LQ2070/LQ2170 Black Ribbon (**5 pack**)	40M	04-53-26	58.02	59.95	59.35	58.76
8767	DFX5000+/8000 Black Refill	15M	21-08-07	10.94	11.45	11.34	11.22
8767	DFX5000+/8000 Black Refill (**5 pack**)	75M	04-53-33	52.52	54.95	54.40	53.86
S015066	DLQ3000/3000+ Black Ribbon	6M	21-70-20	12.38	12.95	12.82	12.69
S015066	DLQ3000/3000+ Black Ribbon (**10 pack**)	60M	04-53-40	120.64	◗	124.95	123.70
S010567	DLQ3000/3000+ Colour Ribbon	3.4M	21-70-37	17.16	17.95	17.77	17.59
S010567	DLQ3000/3000+ Colour Ribbon (**5 pack**)	17M	04-53-57	83.54	87.40	86.53	85.66
S015068	DLQ3000/3000+ Black Film	0.1M	21-70-44	15.25	15.95	15.79	15.63
S015001	TLQ4800 Black Ribbon	2M	20-91-00	12.38	12.95	12.82	12.69
S015011	TLQ4800 Black Film	0.1M	22-74-67	14.29	14.95	14.80	14.65
F604351070	HX20 Black Ribbon	—	20-29-49	1.42	1.59	1.54	1.50
F604351070	HX20 Black Ribbon (**25 pack**)	—	04-53-64	31.14	34.95	33.90	32.88

EPSON SPECIALIST FILM & PAPER ON 968

OTHER ITEMS

FOR DOT MATRIX PRINTERS SEE PAGES 441–451

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

EPSON

MEDIA COMPATIBILITY CHART

KEY:
■ = Film
■ = Paper

Epson. Ref.	Description	Cat. No.	Stylus Pro 700	Stylus 300	Stylus 1500	Stylus Color 3000	Stylus Color 1520	Stylus Color IIs	Stylus Color II	Stylus 820	Stylus Pro XL+	Stylus Pro XL	Stylus Pro	Stylus Color	Stylus 200	Stylus Color 200	Stylus Color 300	Stylus Color 400	Stylus Color 500	Stylus Color 600	Stylus Color 800	Stylus Photo	Stylus Pro 5000
SO41078	A2 360dpi Inkjet Paper	41-18-19	■																				
SO41065	A3 360dpi Inkjet Paper	41-14-24	■																				
SO41066	A3+ 360dpi Inkjet Paper	41-13-69			■	■	■																
SO41059	A4 360dpi Inkjet Paper	41-13-52				■	■																
SO41063	A4 Transparencies	41-14-00				■	■																
SE41001-0	A4 Iron-on Transfer Paper	41-17-78				■	■												■	■			
SO41073	A3 Photo Quality Glossy Film	41-14-48	■			■	■													■	■		
SO41074	A3+ Photo Quality Glossy Film	41-13-76	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
SO41071	A4 Photo Quality Glossy Film	41-13-90	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
SO41107	A6 Photo Quality Glossy Film	41-19-29	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
SO41123	A2 Photo Quality Glossy Paper	88-63-03	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
SO41125	A3 Photo Quality Glossy Paper	67-89-13	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
SO41133	A3+ Photo Quality Glossy Paper	88-63-10	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
SO41126	A4 Photo Quality Glossy Paper	90-51-98	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
SO41102	Photo Quality Banner Paper	41-17-92	■		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
SO41054	A6 Photo Quality Inkjet Card	22-10-92	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
SO41079	A2 Photo Quality Inkjet Paper	41-18-26	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
SO41068	A3 Photo Quality Inkjet Paper	41-14-31	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
SO41069	A3+ Photo Quality Inkjet Paper	41-14-17	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
SO41061	A4 Photo Quality Inkjet Paper	41-13-83	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
SO41106	A4 Photo Quality Self-adhesive Sheets	41-19-36	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
SO41031	A4 Media Starter Pack	22-11-02	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
SO41134	4 × 6 Photo Paper	41-26-81			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
SO41121	5 × 8 Photo Quality Inkjet Card	67-89-20	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
SO41122	8 × 10 Photo Quality Inkjet Card	69-00-32	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
SO41131	A3 Inkjet Back Light Film	41-26-74	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
SO41130	A2 Inkjet Back Light Film	41-26-67	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
SO41132	Inkjet Canvas Roll Cloth	41-26-43	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
SO41144	A6 Photo Sticker Paper	69-37-78				■	■																
SO41140	A4 Photo Paper	69-37-30				■	■																
SO41142	A3 Photo Paper	69-37-47				■	■																
SO41143	A3+ Photo Paper	69-37-54				■	■																
SO41145	A2 Panoramic Photo Paper	69-37-61	■			■	■																■

OTHER ITEMS

FOR OUR RANGE OF PRINTERS SEE PAGES 371–458
FOR OUR RANGE OF PHOTOCOPIERS SEE PAGES 481

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

EPSON PRINTER SUPPLIES ON PAGE 968

PHOTO PAPER AND FILM

EPSON







Brilliant White Heavy Weight Photo Paper compliments the existing range of Film and Glossy Paper. The paper is ideal for digital photographers and home users who can create fun photos and enlargement from the convenience of their own home and for special projects at an affordable price.

PHOTO PAPER

REF. NO.	DESCRIPTION	PACK QTY	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
S041140	A4 Photo Paper	20	69-37-30	6.23	6.45	6.39	6.32
S041142	A3 Photo Paper	20	69-37-47	15.05	15.75	15.59	15.44
S041143	A3+ Photo Paper	20	69-37-54	18.11	18.95	18.76	18.57
S041145	A2 Panoramic Photo Paper	10	69-37-61	8.86	9.95	9.65	9.36
S041134	Photo Paper (4 × 6)	20	41-26-81	4.21	4.95	4.85	4.75
S041255	Photo Paper (100 × 150mm)	20	46-17-75	2.25	2.35	2.33	2.30
S041254	Photo Paper with perforation (200 × 300mm)	10	46-30-96	5.93	6.20	6.14	6.08

FILM

REF. NO.	DESCRIPTION	PACK QTY	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
S041107	A6 Photo Quality Glossy Film	10	41-19-29	2.82	2.95	2.92	2.89
S041071	A4 Photo Quality Glossy Film	15	41-13-90	18.11	18.95	18.76	18.57
S041073	A3 Photo Quality Glossy Film	10	41-14-48	30.35	31.75	31.43	31.12
S041074	A3+ Photo Quality Glossy Film	10	41-13-76	38.73	39.95	39.55	39.15
S041131	A3 InkJet Back Light Film	10	41-26-74	23.85	24.95	24.70	24.45
S041130	A2 InkJet Back Light Film	10	41-26-67	45.83	47.95	47.47	47.00
S041063	A4 InkJet Back Light Film	30	41-14-00	24.18	24.95	24.70	24.45

EPSON SPECIALIST FILM & PAPER CONTINUED ON 970

OTHER ITEMS

FOR PRINTERS SEE PAGES 371–458
FOR PHOTOCOPIERS SEE PAGE 481

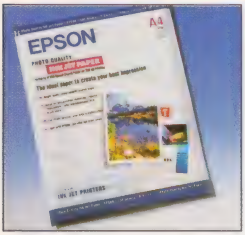
www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

▼ **NEW** *item on this page* ▼

EPSON SPECIALIST PAPER CONTINUED FROM 969

PAPER

EPSON







REF NO	DESCRIPTION	Qty	CAT NO	Web Price	PRICE PER PACK £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
S041059	A4 360dpi Inkjet Paper	100	41-13-52	4.86	5.45	5.29	5.13
S041061	A4 Photo Quality Inkjet Paper	100	41-13-83	5.97	6.25	6.19	6.13
NEW S041061	A4 Photo Quality Paper (5 pack)	100	04-18-19	30.06	31.45	31.14	30.82
S041066	A3+ 360dpi Inkjet Paper	100	41-13-69	17.16	17.95	17.77	17.59
S041069	A3+ Photo Quality Inkjet Paper	100	41-14-17	24.18	24.95	24.70	24.45
S041065	A3 360dpi Inkjet Paper	100	41-14-24	15.25	15.95	15.79	15.63
S041068	A3 Photo Quality Inkjet Paper	100	41-14-31	20.30	20.95	20.74	20.53
S041256	A4 Matte Heavyweight Paper	50	46-30-97	6.64	6.95	6.88	6.81
S041106	A4 Photo Quality Self Adhesive Sheets	10	41-19-36	6.17	6.45	6.39	6.32
S041132	Inkjet Canvas Cloth Roll (410mm × 3m)	3 metres	41-26-43	31.49	32.95	32.62	32.29
S0E41001	Letter Size Iron-on T-Shirt Transfer Media	10	41-17-78	7.89	8.25	8.17	8.09
S041102	Photo Quality Inkjet Banner Paper	15 metres	41-17-92	18.11	18.95	18.76	18.57
C811002	Banner Paper Holder	N/A	41-18-02	15.72	16.45	16.29	16.12
S041078	A2 360dpi Inkjet Paper	30	41-18-19	14.29	14.95	14.80	14.65
S041079	A2 Photo Quality Inkjet Paper	30	41-18-26	19.07	19.95	19.75	19.55
S041123	A2 Photo Quality Glossy Paper	20	88-63-03	25.76	26.95	26.68	26.41
S041125	A3 Photo Quality Glossy Paper	20	67-89-13	13.63	13.95	13.81	13.67
S041133	A3+ Photo Quality Glossy Paper	20	88-63-03	25.76	26.95	26.68	26.41
S041126	A4 Photo Quality Glossy Paper	20	90-51-98	4.35	4.55	4.50	4.46
S041054	A6 Photo Quality Inkjet Card	50	22-10-92	5.30	5.95	5.77	5.60
S041121	5 × 6 Photo Quality Inkjet Card	30	67-89-20	4.32	4.45	4.41	4.36
S041122	8 × 10 Photo Quality Inkjet Card	30	69-00-32	10.47	10.95	10.84	10.73
S041177	Photo Paper Cards	10	23-08-70	3.52	3.95	3.83	3.72
S041176	Photo Stickers 4	5	23-08-87	3.52	3.95	3.83	3.72
S041149	8 × 10" Inkjet Card with Envelopes	10	23-08-94	7.08	7.95	7.71	7.48
S041148	5 × 8" Inkjet Card with Envelopes	10	23-09-04	5.03	5.65	5.48	5.32
S041147	A6 Inkjet Card with Envelopes	20	23-09-11	5.61	6.30	6.11	5.93
S041150	Inkjet Printer Cleaning Sheets	—	23-09-28	2.45	2.75	2.67	2.59
S041154	A4 Iron-On Cool Peel T-Shirt Transfer Media	10	23-09-35	8.64	9.70	9.41	9.13

OTHER ITEMS

FOR PRINTERS SEE PAGES 371–458
FOR PHOTOCOPIERS SEE PAGES 481

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRINTER SUPPLIES

INKJET COMPATIBILITY CHART

KEY:
● = Black Ink ● = Magenta Ink
◔ = 3 Colour Ink Cart ● = Yellow Ink
● = Cyan Ink ✶ = Photo Ink

HP Ref.	Description	Cat. No.	DeskJet 310/320/340/DeskWriter 310/320	DeskJet 340C/CBi	DeskJet 400/400L/420C	DeskJet 500/510/520 - DeskWriter 520	DeskJet 500C/540 - DeskWriter 540	DeskJet 550C/560C-DeskWriter 550C/560C	DeskJet 600/DeskWriter 600	DeskJet 610C	DeskJet 660C/670C D/Writer 660C/670	DeskJet 690C Series/695C	DeskJet 710/720C/810C	DeskJet 820CXI/850C/870CXI	DeskJet 840C/843C	DeskJet 880C/895CXI	DeskJet 890C	DeskJet 930C/950C/970CXI	DeskJet 1100C	DeskJet 1120C	DeskJet 1200C/PS	DeskJet 1220C	DeskJet 1600C/CM	HP 2000C/CN	HP 2500C/CM
C4584A	Photo Colour Kit	22-74-36								✶		✶													
51626A	Black Ink Cartridge	21-33-30			●	●	●		●																
51629A	Black Ink Cartridge	21-80-29							●		●	●													
51633M	Black Ink Cartridge	22-14-49		●																					
51640A	Black Ink Cartridge	21-01-75																			●				
51645A	Black Ink Cartridge	21-80-43											●	●				●	●	●			●		
51625A	Tri-Colour Ink Cartridge	21-32-82		◔			◔	◔																	
51640C	Cyan Ink Cartridge	21-01-06																			●		●		
51640M	Magenta Ink Cartridge	21-01-13																			●		●		
51640Y	Yellow Ink Cartridge	21-01-20																			●		●		
51641A	Tri-Colour Ink Tank	21-80-50												◔					◔						
51649A	Tri-Colour Ink Cartridge	21-80-36							◔	◔	◔	◔													
C1816A	Photo Ink Cartridge	22-53-66							◔	✶		✶													
C4844A	Black Ink Cartridge	23-09-80																						●	●
C4841A	Cyan Ink Cartridge	23-09-97																						●	●
C4842A	Magenta Ink Cartridge	23-10-06																						●	●
C4843A	Yellow Ink Cartridge	23-10-13																						●	●
C6578D	Tri-Colour Ink Cartridge	23-17-79																◔				◔			
C6614D	Black Ink Cartridge	23-31-13								●															
C1823D	Tri-Colour Ink Cartridge	23-17-20											◔				◔								
C6615D	Black Ink Cartridge	23-18-03													●										
C6625A	Tri-Colour Ink Cartridge	23-31-10													◔	◔									

OTHER ITEMS

FOR INKJET PRINTERS SEE PAGES 374–396

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

HP PRINTER SUPPLIES CONTINUED FROM 971

PRINTER SUPPLIES

INKJET

PART NO.	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DESKJET PORTABLE/310/320/340						
51633M	High Capacity Black Ink Cartridge	22-14-49	12.43	13.95	13.53	13.13
51633M	High Capacity Black Ink Cartridge (**5 pack**)	04-92-50	61.16	68.65	66.59	64.59
51625A	Tri-Colour Ink Cartridge	21-32-82	17.23	17.95	17.77	17.59
51625A	Tri-Colour Ink Cartrdige (**5 pack**)	04-92-74	82.15	85.95	85.09	84.24
DESKJET 400/500 SERIES						
51626A	High Capacity Black Ink Cartridge	21-33-30	16.75	17.45	17.28	17.10
51626A	High Capacity Black Ink Cartridge (**5 pack**)	04-92-67	82.15	85.95	85.09	84.24
51625A	Tri-Colour Ink Cartridge	21-32-82	17.23	17.95	17.77	17.59
51625A	Tri-Colour Ink Cartridge (**5 pack**)	04-92-74	82.15	85.95	85.09	84.24
DESKJET 600/660C/670C/690C/695/OFFICEJET 500 SERIES/OFFICEJET 635						
51629A	Black Ink Cartridge	21-80-29	17.64	18.25	18.07	17.89
51629A	Black Ink Cartridge (**5 pack**)	04-24-77	83.87	87.75	86.87	86.00
51649A	Tri-colour Ink Cartridge	21-80-36	17.99	19.75	19.55	19.36
51649A	Tri-colour Ink Cartridge (**5 pack**)	04-24-84	88.95	95.75	94.79	93.84
C1816A	Photo Cartridge for DJ 690C	22-53-66	19.29	19.95	19.75	19.55
NEW C4584A	Deskjet 690C Photo Kit	22-74-36	23.85	24.95	24.70	24.45
DESKJET 610C						
C6614D	Black Ink Cartridge	23-31-13	15.53	16.25	16.09	15.93
51649A	Tri Colour Ink Cartridge	21-80-36	17.99	19.75	19.55	19.36
DESKJET 710/720/800 SERIES/1100C/1120C/1170C/OFFICEJET PRO 1150C						
51645A	Black Ink Cartridge	21-80-43	16.95	17.95	17.77	17.59
51645A	Black Ink Cartridge (**5 pack**)	04-25-01	83.95	87.95	87.07	86.20
51641A	Tri-Colour Ink Cartridge	21-80-50	17.20	17.95	17.77	17.59
C1823D	Tri-Colour Ink Cartridge (DJ710/720/880/890C+/1120C/1170C only) (30ml)	23-17-20	19.30	20.85	20.64	20.44
C1823D	Tri-Colour Ink Cartridge (DJ710/720/880/890C+/1120C/1170C only) (30ml)	04-18-12	94.58	98.95	97.96	96.98
DESKJET 830C/840/843C						
C6625A	Tri-Colour Ink Cartridge	23-31-10	20.02	20.95	20.74	20.53
C6615B	Black Ink Cartridge	23-18-03	17.63	18.45	18.27	18.08
DESKJET 1220C						
51645A	Black Ink Cartridge	21-80-43	16.95	17.95	17.77	17.59
C6578D	Tri-Colour Ink Cartridge	23-17-79	18.67	20.95	20.32	19.71

HP PRINTER SUPPLIES CONTINUED ON 973

OTHER ITEMS

FOR GUIDE TO INKJET PRINTERS SEE PAGE 374

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

HP PRINTER SUPPLIES CONTINUED FROM 972

PRINTER SUPPLIES

INKJET

PART NO.	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
DESKJET 815C							
51645A	Black Ink Cartridge	21-80-43	16.95	17.95	17.77	17.59	
C1823D	Tri-Colour Ink Cartridge (30ml)	23-17-20	19.30	20.85	20.64	20.44	
DESKJET 970Cxi/PhotoSmart P1000/P1100							
51645A	Black Ink Cartridge	21-80-43	16.95	17.95	17.77	17.59	
C6578D	Tri-Colour Ink Cartridge (19ml)	23-17-79	18.67	20.95	20.32	19.71	
DESKJET 1200C/COPYJET/M							
51640A	Black Ink Cartridge	21-01-75	16.20	16.95	16.78	16.61	
51640A	Black Ink Cartridge (**5 pack**)	04-24-91	79.29	82.95	82.12	81.30	
51640C	Cyan Ink Cartridge	21-01-06	19.55	20.95	20.74	20.53	
51640M	Magenta Ink Cartridge	21-01-13	19.55	20.95	20.74	20.53	
51640Y	Yellow Ink Cartridge	21-01-20	19.55	20.95	20.74	20.53	
DESKJET 1600C							
51645A	Black Ink Cartridge	21-80-43	16.95	17.95	17.77	17.59	
51645A	Black Ink Cartridge (**5 pack**)	04-25-01	83.95	87.95	87.07	86.20	
51640C	Cyan Ink Cartridge	21-01-06	19.55	20.95	20.74	20.53	
51640M	Magenta Ink Cartridge	21-01-13	19.55	20.95	20.74	20.53	
51640Y	Yellow Ink Cartridge	21-01-20	19.55	20.95	20.74	20.53	
DESKJET 2000C/CN/2500C/CM							
C4800A	Black Ink Printhead	23-09-42	21.74	22.75	22.52	22.30	
C4800A	Black Ink Printhead (**5 pack**)	04-18-10	101.12	♦	103.95	102.91	NEW
C4801A	Cyan Ink Printhead	23-09-59	21.94	22.95	22.72	22.49	
C4801A	Cyan Ink Printhead (**5 pack**)	04-31-23	100.36	♦	103.95	102.91	NEW
C4802A	Magenta Ink Printhead	23-09-66	21.94	22.95	22.72	22.49	
C4802A	Magenta Ink Printhead (**5 pack**)	04-53-75	100.36	♦	103.95	102.91	NEW
C4803A	Yellow Ink Printhead	23-09-73	21.94	22.95	22.72	22.49	
C4803A	Yellow Ink Printhead (**5 pack**)	04-31-24	101.12	♦	103.95	102.91	NEW
C4844A	Black Ink Cartridge (69ml)	23-09-80	21.46	22.45	22.23	22.00	
C4844A	Black Ink Cartridge (**5 pack**)	04-94-98	99.40	♦	102.95	101.92	NEW
C4841A	Cyan Ink Cartridge	23-09-97	21.46	22.45	22.23	22.00	
C4841A	Cyan Ink Cartridge (**5 pack**)	04-18-13	99.40	♦	102.95	101.92	NEW
C4843A	Magenta Ink Cartridge	23-10-13	21.46	22.45	22.23	22.00	
C4843A	Magenta Ink Cartridge (**5 pack**)	04-31-25	99.40	♦	102.95	101.92	NEW
C4842A	Yellow Ink Cartridge	23-10-06	21.46	22.45	22.23	22.00	
C4842A	Yellow Ink Cartridge (**5 pack**)	04-53-76	99.40	♦	102.95	101.92	NEW

OTHER ITEMS

FOR INKJET PRINTERS SEE PAGES 374–396

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

HP PRINTER SUPPLIES CONTINUED FROM 973

PRINTER SUPPLIES







INKJET

PART NO.	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
PAINTJET XL300						
51639A	Black Ink Cartridge	21-42-12	13.44	13.95	13.81	13.67
51639C	Cyan Ink Cartridge	21-42-29	15.25	15.95	15.79	15.63
51639M	Magenta Ink Cartridge	21-42-36	15.25	15.95	15.79	15.63
51639Y	Yellow Ink Cartridge	21-42-43	15.25	15.95	15.79	15.63
THINKJET/QUIETJET						
51604A	Black Ink Cartridge (for HP Plain Paper)	20-72-05	7.50	7.85	7.77	7.69
51604A	Black Ink Cartridge (for HP Plain Paper) (**10 pack**)	04-92-81	72.40	75.75	74.99	74.24
92261A	Black Ink Cartridge (for HP Jet Paper)	20-84-31	7.45	8.35	8.25	8.15
92261A	Black Ink Cartridge (for HP Jet Paper) (**5 pack**)	04-92-98	36.27	37.95	37.57	37.19
51605B	Blue Ink Cartridge (for HP Jet Paper)	20-84-62	9.18	9.60	9.50	9.41
DESIGNJET 200/220/600						
51626A	High Capacity Black Ink Cartridge	21-33-30	16.75	17.45	17.28	17.10
51626A	High Capacity Black Ink Cartridge (**5 pack**)	04-92-67	82.15	85.95	85.09	84.24
DESIGNJET 230/330						
51640A	Black Ink Cartridge	21-01-75	16.20	16.95	16.78	16.61
51640A	Black Ink Cartridge (**5 pack**)	04-24-91	79.29	82.95	82.12	81.30
DESIGNJET 350C/430/450C/488CA						
51640A	Black Ink Cartridge	21-01-75	16.20	16.95	16.78	16.61
51640A	Black Ink Cartridge (**5 pack**)	04-24-91	79.29	82.95	82.12	81.30
51644C	Cyan Ink Cartridge	22-27-85	20.02	20.95	20.74	20.53
51644M	Magenta Ink Cartridge	22-27-78	20.45	22.95	22.26	21.59
51644Y	Yellow Ink Cartridge	22-27-61	19.07	19.95	19.75	19.55

HP PRINTER SUPPLIES CONTINUED ON 975

OTHER ITEMS

FOR OUR RANGE OF PRINTERS SEE PAGES 371–458

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

HP PRINTER SUPPLIES CONTINUED FROM 974

PRINTER SUPPLIES

INKJET



PART NO.	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DESIGNJET 250C/455CA/650C/PS						
51640A	Black Ink Cartridge	21-01-75	16.20	16.95	16.78	16.61
51640A	Black Ink Cartridge (**5 pack**)	04-24-91	79.29	82.95	82.12	81.30
51650C	Cyan Ink Cartridge	21-03-19	22.84	23.90	23.66	23.42
51650M	Magenta Ink Cartridge	21-04-29	20.02	20.95	20.74	20.53
51650Y	Yellow Ink Cartridge	21-04-81	19.07	19.95	19.75	19.55
DESIGNJET 750C/755CM						
51645A	Black Ink Cartridge	21-80-43	16.95	17.95	17.77	17.59
51645A	Black Ink Cartridge (**5 pack**)	04-25-01	83.95	87.95	87.07	86.20
51644C	Cyan Ink Cartridge	22-27-85	20.02	20.95	20.74	20.53
51644M	Magenta Ink Cartridge	22-27-78	20.45	22.95	22.26	21.59
51644Y	Yellow Ink Cartridge	22-27-61	19.07	19.95	19.75	19.55
DESIGNJET 1050C/1055CM						
C4871A	Black Ink Cartridge (350ml)	23-17-24	75.46	78.95	78.16	77.38
C4846A	Cyan Ink Cartridge (350ml)	23-70-23	75.46	78.95	78.16	77.38
C4847A	Magenta Ink Cartridge (350ml)	23-22-66	75.46	78.95	78.16	77.38
C4848A	Yellow Ink Cartridge (350ml)	23-49-49	75.46	78.95	78.16	77.38
C4872A	Cyan Ink Cartridge (175ml)	23-12-47	45.83	47.95	47.47	47.00
C4874A	Magenta Ink Cartridge (175ml)	23-08-39	45.83	47.95	47.47	47.00
C4873A	Yellow Ink Cartridge (175ml)	23-38-96	45.83	47.95	47.47	47.00
DESIGNJET 2000CP/2500CP/2800CP/3800CP						
C1806A	Black CP Ink System	22-94-41	86.95	89.75	88.85	87.96
C1807A	Cyan CP Ink System	22-94-58	86.95	89.75	88.85	87.96
C1808A	Magenta CP Ink System	22-94-65	86.95	89.75	88.85	87.96
C1809A	Yellow CP Ink System	22-94-72	85.78	89.75	88.85	87.96
C1892A	Black CP UV Ink System	22-94-89	114.84	◗	118.95	117.76
C1893A	Cyan CP UV Ink System	22-94-96	114.84	◗	118.95	117.76
C1894A	Magenta CP UV Ink System	22-95-06	114.84	◗	118.95	117.76
C1895A	Yellow CP UV Ink System	22-95-13	114.84	◗	118.95	117.76

HP PRINTER SUPPLIES CONTINUED ON 976

OTHER ITEMS

FOR OUR RANGE OF PRINTERS SEE PAGES 371–458

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRINTER SUPPLIES

LASER COMPATIBILITY CHART

KEY:
● = Black Ink ● = Magenta Ink
● = Cyan Ink ● = Yellow Ink

HP Ref.	Description	Cat. No.	LaserJet 1100/1100A	LaserJet 2100/M/TN	LaserJet 3100/3150/5L/6L	LaserJet 4000/4000T/4000M/4000TN	LaserJet 4050 Series	LaserJet 5000/5000N/5000GN	LaserJet 8000 Series/Mopier 240	LaserJet 8100 Series/Mopier 320	LaserJet II Series/IID III Series/IIID	LaserJet IIP/IIP+	LaserJet IIIP	LaserJet IIISI/4SI/4SI MX	LaserJet 4L/4ML/4P/4MP	LaserJet 4V/4MV	LaserJet 4/4M/4+/4M+5/5M/5N	LaserJet 5L/6L	LaserJet 5SI/5SIMX/NX/5SI Mopier	LaserJet 5P/5MP/6P/6MP	Color LaserJet	Color LaserJet 4500/N/DN	Color Laser 8500/N/DN/8550	Color LaserJet 5/5M
92295A	Black Toner Cartridge	20-55-82									●													
92275A	Black Toner Cartridge	20-99-04										●	●											
92291A	Black Toner Cartridge	21-19-30												●										
92298A	Black Toner Cartridge	21-47-17															●							
92298S	Black Toner Cartridge	22-31-24															●							
92298X	Black Toner Cartridge	22-75-15															●							
92274A	Black Toner Cartridge	20-36-94													●									
C3900A	Black Toner Cartridge	21-69-28														●								
C3903A	Black Toner Cartridge	21-79-65																		●				
C3906A	Black Toner Cartridge	22-11-19																●						
C3909A	Black Toner Cartridge	22-14-25																			●			
C3102A	Cyan Toner Cartridge	21-75-63																			●			
C3103A	Yellow Toner Cartridge	21-75-70																			●			
C3104A	Magenta Toner Cartridge	21-75-87																			●			
C3105A	Black Toner Cartridge	21-75-56																			●			
C4092A	Black Toner Cartridge	23-11-16																						
C4096A	Black Toner Cartridge	23-29-64																						
C4127A	Black Toner Cartridge	22-91-59																						
C4127X	Black Toner Cartridge	22-91-42																						
C4129X	Black Toner Cartridge	11-39-04																						
C4191A	Black Toner Cartridge	23-11-30																						
C4192A	Cyan Toner Cartridge	23-11-47																						
C4193A	Magenta Toner Cartridge	23-11-54																						
C4194A	Yellow Toner Cartridge	23-11-61																						
C4149A	Black Toner Cartridge	23-11-78																						
C4150A	Cyan Toner Cartridge	23-11-85																						
C4151A	Magenta Toner Cartridge	23-11-92																						
C4152A	Yellow Toner Cartridge	23-12-02																						
C4182X	Black UltraPrecise Toner	23-11-23																						

OTHER ITEMS

FOR GUIDE TO LASER PRINTERS SEE PAGE 404

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

HP PRINTER SUPPLIES CONTINUED FROM 976

PRINTER SUPPLIES

LASER

PART NO.	DESCRIPTION	PAGE YIELD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
COLOR LASERJET 4500								
C4191A	Black Toner Cartridge	9,000	23-11-30	51.57	53.95	53.41	52.88	
C4191A	Black Toner Cartridge (**5 pack**)	45,000	04-22-84	244.12	◗	250.95	248.44	NEW
C4192A	Cyan Toner Cartridge	6,000	23-11-47	66.86	69.95	69.25	68.56	
C4192A	Cyan Toner Cartridge (**5 pack**)	30,000	04-49-74	316.10	◗	324.95	321.70	NEW
C4193A	Magenta Toner Cartridge	6,000	23-11-54	66.86	69.95	69.25	68.56	
C4193A	Magenta Toner Cartridge (**5 pack**)	30,000	04-08-52	316.10	◗	324.95	321.70	NEW
C4194A	Yellow Toner Cartridge	6,000	23-11-61	66.86	69.95	69.25	68.56	
C4194A	Yellow Toner Cartridge (**5 pack**)	30,000	04-39-09	316.10	◗	324.95	321.70	NEW
C4196A	Transfer Kit	150,000	23-16-35	120.64	◗	124.95	123.70	
C4195A	Drum Kit	25,000	23-16-42	51.57	53.95	53.41	52.88	
C4198A	Fuser Unit (220 volt)	100,000	23-16-59	138.01	◗	142.95	141.52	
LASERJET 8000 SERIES/MOPIER 320								
C3909A	Black Toner Cartridge	—	22-14-25	99.95	◗	102.95	102.45	
LASERJET 8100								
C4182X	UltraPrecise Maximum Capacity Black Toner Cartridge	20,000	23-11-23	117.32	◗	119.95	118.75	
C4182X	Ultra Precise Maximum Capacity Black Toner Cartridge (**5 pack**)	100,000	04-76-76	527.10	◗	545.95	540.49	NEW
COLOR LASERJET 8500/8550/8550N/8550DN/8550GN								
C4149A	Black Toner Cartridge	17,000	23-11-78	63.99	66.95	66.28	65.62	
C4150A	Cyan Toner Cartridge	8,500	23-11-85	94.58	98.95	97.96	96.98	
C4151A	Magenta Toner Cartridge	8,500	23-11-92	94.58	98.95	97.96	96.98	
C4152A	Yellow Toner Cartridge	8,500	23-12-02	94.58	98.95	97.96	96.98	
LASERJET SUPPLIES								
92295A	LaserJet II/IID/III/IIID Toner Cartridge	5,000	20-55-82	41.05	42.95	42.52	42.10	
92295A	LaserJet II/IID/III/IIID Toner Cartridge (**5 pack**)	25,000	04-63-32	200.77	◗	207.95	205.87	
92275A	LaserJet IIP/IIIP Black Toner Cartridge	4,000	20-99-04	47.18	47.60	47.55	47.35	
92275A	LaserJet IIP/IIIP Multipack (**5 pack**)	20,000	04-17-53	229.75	◗	234.95	232.60	
33449-670903	LaserJet 3 Maintenance Kit	—	23-17-75	85.98	89.95	89.05	88.16	

HP PRINTER SUPPLIES CONTINUED ON 978

OTHER ITEMS

FOR HP LASER PRINTERS SEE PAGES 416–422, 428, 429

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

HP PRINTER SUPPLIES CONTINUED FROM 977

PRINTER SUPPLIES

LASER

PART NO.	DESCRIPTION	PAGE YIELD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
LASERJET SUPPLIES							
92291A	LaserJet IIISi/4Si Black Toner Cartridge	8,000	21-19-30	63.99	67.95	67.27	66.60
92291A	LaserJet IIISi/4Si Multipack (**5 pack**)	40,000	04-17-77	314.70	➧	325.95	322.69
C2087A	LaserJet IIISi/4Si Maintenance Kit	200,000	22-17-62	207.53	➧	214.95	212.80
92298A	LaserJet 4/5/5M/5N Black Toner Cartridge	6,800	21-47-17	47.95	53.95	52.33	50.76
92298S	LaserJet 4/5/5M/5N Multipack (**5 pack**)	34,000	22-31-24	246.00	➧	254.95	252.40
92298X	LaserJet 4/5/5M/5N Maximum Black Toner	8,800	22-75-15	58.75	59.95	59.85	59.75
92298X	LaserJet 4/5/5M/5N Max Multipack (**5 pack**)	44,000	04-18-18	270.28	➧	279.95	277.15
92274A	LaserJet 4L/4P Black Toner Cartridge	3,000	20-36-94	39.95	43.95	43.51	43.08
92274A	LaserJet 4L/4P Multipack (**5 pack**)	15,000	04-18-87	193.05	➧	199.95	197.95
C2037A	LaserJet 4 Maintenance Kit	—	23-53-55	157.32	➧	162.95	161.32
C3900A	LaserJet 4V/4MV Black Toner Cartridge	8,100	21-69-28	80.95	85.95	85.09	84.24
C3900A	LaserJet 4V/4MV Black Toner Cartridge (**5 pack**)	40,500	04-57-11	393.25	➧	398.45	394.47
C3906A	LaserJet 5L/6L Black Toner Cartridge	2,500	22-11-19	32.95	34.95	34.60	34.25
C3906A	LaserJet 5L/6L Black Toner Cartridge (**5 pack**)	12,500	04-57-28	159.74	➧	165.45	163.80
C3903A	LaserJet 5P/6P Black Toner Cartridge	4,000	21-79-65	42.95	46.95	46.48	46.02
C3903A	LaserJet 5P/6P Black Toner Cartridge (**5 pack**)	20,000	04-57-35	215.25	➧	222.95	220.72
C3909A	LaserJet 5Si/MX Black Toner Cartridge	15,000	22-14-25	99.95	➧	102.95	102.45
C3909A	LaserJet 5Si/MX Black Toner Cartridge (**5 pack**)	75,000	04-57-42	487.52	➧	504.95	499.90
C4092A	LaserJet 1100 Black Toner Cartridge	2,500	23-11-16	33.81	37.95	36.81	35.71
C4096A	LaserJet 2100 Black Toner Cartridge	5,000	23-29-64	54.45	59.95	59.35	58.76
C3906A	LaserJet 3100 Black Toner Cartridge	2,500	22-11-19	32.95	34.95	34.60	34.25
C3906A	LaserJet 3100 Black Toner Cartridge (**5 pack**)	12,500	04-57-28	159.74	➧	165.45	163.80
C4127A	LaserJet 4000/4050 Black Toner Cartridge	6,000	22-91-59	52.95	57.95	57.37	56.80
C4127X	LaserJet 4000/4050 Black Toner Cartridge	10,000	22-91-42	74.84	75.95	75.78	75.58
C4127X	LaserJet 4000/4050 Black Toner Cartridge (**5 pack**)	50,000	04-17-78	361.95	➧	369.95	367.95
C4129X	LaserJet 5000 Black Toner Cartridge	10,000	11-39-04	90.95	96.95	95.98	95.02

OTHER ITEMS

FOR PRINTERS SEE PAGES 371–458

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

HP PRINTER SUPPLIES CONTINUED FROM 976

PRINTER SUPPLIES





LASER

PART NO.	DESCRIPTION	PAGE YIELD	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
LASERJET SUPPLIES							
C3909A	LaserJet 8000 Black Toner Cartridge	15,000	22-14-25	99.95	◆	102.95	102.45
C3909A	LaserJet 8000 Black Toner Cartridge (**5 pack**)	75,000	04-57-42	487.52	◆	504.95	499.90
C4128X	LaserJet 8100 Black Toner Cartridge	20,000	23-11-23	117.32	◆	119.95	118.75
92296T	LaserJet A size Transparency Film (**50 sheets**)	—	22-17-79	12.38	12.95	12.82	12.69
92296U	LaserJet A4 Transparency Film (**50 sheets**)	—	22-17-86	12.38	12.95	12.82	12.69
COLOR LASERJET SUPPLIES							
C3105A	Color LaserJet/5/5M Black Toner Cartridge	3,000	21-75-56	4.86	5.45	5.29	5.13
C3105A	Color LaserJet/5/5M Black Toner Multipack (**5 pack**)	15,000	04-21-92	23.39	26.25	25.46	24.70
C3102A	Color LaserJet/5/5M Cyan Toner Cartridge	3.000	21-75-63	22.94	24.95	24.20	23.48
C3102A	Color LaserJet/5/5M Cyan Toner Multipack (**5 pack**)	15,000	04-22-19	113.25	◆	115.95	114.79
C3103A	Color LaserJet/5/5M Yellow Toner Cartridge	3.000	21-75-70	22.94	24.95	24.20	23.48
C3103A	Color LaserJet/5/5M Yellow Toner Multipack (**5 pack**)	15,000	04-22-40	105.67	◆	109.45	108.36
C3104A	Color LaserJet/5/5M Magenta Toner Cartridge	3.000	21-75-87	22.23	24.95	24.20	23.48
C3104A	Color LaserJet/5/5M Magenta Toner Multipack (**5 pack**)	15,000	04-22-57	113.25	◆	115.95	114.79
C3120A	Color LaserJet/5/5M Toner Collection Kit	20.000	21-75-94	16.95	17.95	17.77	17.59
C3964A	Color LaserJet/5/5M Coating Pad Kit	20,000	22-31-93	30.75	31.95	31.63	31.31
C3965A	Color LaserJet/5/5M Black Developer Kit	40,000	22-31-31	108.45	◆	109.95	108.85
C3966A	Color LaserJet/5/5M Color Developer Unit	40,000	22-31-48	288.63	◆	298.95	295.96
C3967A	Color LaserJet/5/5M Print Drum	30,000	22-31-55	193.05	◆	199.95	197.95
C3968A	Color LaserJet/5/5M Transfer Belt	60,000	22-31-62	94.58	98.95	97.96	96.98
C3969A	Color LaserJet/5/5M 220 Volt Fuser Unit	80,000	22-31-79	149.60	◆	154.95	153.40

HP SPECIALIST MEDIA ON 978

OTHER ITEMS

FOR HP LASER PRINTERS SEE PAGES 416–422, 428, 429

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRINTER SUPPLIES

MEDIA COMPATIBILITY CHART

KEY:
■ = Film
■ = Paper

HP Ref.	Description	Cat. No.	Photo Printer	CopyJet/CopyJet M	1600/1600M	1200C	850c/820Cxi/870Cxi	690c/694c	660c/670c/OfficeJet 590	600	550c/560c	500c/540	DJ+/DW500/520	400	340	Portable/310/320
51643Y	A4 Premium Inkjet Paper (200)	41-07-17	■	■	■	■	■	■	■	■	■	■	■	■	■	■
C3828A	A4 Premium Transparency Film (20)	41-07-62	■	■	■	■	■	■	■	■	■	■	■	■	■	■
C3834A	A4 Premium Film (50)	41-07-55	■	■	■	■	■	■	■	■	■	■	■	■	■	■
C3831A	A4 Premium Glossy Paper (10)	41-07-48	■	■	■	■	■	■	■	■	■	■	■	■	■	■
C3836A	A4 Premium Glossy Paper (50)	41-07-24	■	■	■	■	■	■	■	■	■	■	■	■	■	■
C1825A	A4 Bright White Paper (500)	41-19-43	■	■	■	■	■	■	■	■	■	■	■	■	■	■
C1847A	A4 Photo Paper (20)	41-19-50	■													
C1821A	A4 Banner Paper (5)	41-19-67	■													
C6042A	Greeting Cards (20, inc. Envelopes)	41-28-32	■													
C5995A	4 x 6 Matte Photo Paper	67-67-57	■	■	■	■	■	■	■	■	■	■	■	■	■	■
C6011A	Photo Note Cards	67-80-61	■	■	■	■	■	■	■	■	■	■	■	■	■	■
C3832A	A4 Premium Transparency Film (20)	41-07-09	■	■	■	■	■	■	■	■	■	■	■	■	■	■
C3835A	A4 Premium Transparency Film (50)	40-63-43	■	■	■	■	■	■	■	■	■	■	■	■	■	■
C3833A	A4 Premium Glossy Paper (10)	41-07-31	■	■	■	■	■	■	■	■	■	■	■	■	■	■
C3837A	A4 Premium Glossy Paper (50)	40-04-04	■	■	■	■	■	■	■	■	■	■	■	■	■	■

OTHER ITEMS

FOR HP INKJET PRINTERS SEE PAGES 374–396

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

HP PRINTER SUPPLIES CONTINUED FROM PAGE 980

FILM

HP REF. NO.	DESCRIPTION	mm × mm	sheets/ pack	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
51634Z	Premium InkJet paper A4	297 × 210	200	40-42-42	10.47	10.95	10.84	10.73
C1856A	Premium InkJet Paper A3	420 × 297	100	51-00-19	20.98	21.95	21.73	21.51
C1853A	Heavyweight Premium InkJet paper A4	297 × 210	100	68-56-52	8.55	8.95	8.86	8.77
C5977A	Bright white InkJet paper A4	297 × 210	200	41-19-43	4.25	4.45	4.41	4.36
C1858A	Bright white InkJet paper A3	420 × 297	200	51-00-02	12.66	13.25	13.12	12.99
C3835A	Premium Transparency film A4	297 × 210	50	40-63-43	23.85	24.95	24.70	24.45
C3832A	Premium Transparency film A4	297 × 210	20	41-07-79	10.65	11.95	11.59	11.24
C3837A	Premium Glossy paper A4	297 × 210	50	40-04-04	25.76	26.95	26.68	26.41
C3831A	Premium Glossy paper A4	297 × 210	10	41-07-48	6.01	6.75	6.55	6.35
C1847A	Photo paper A4	297 × 210	20	41-19-50	7.12	7.45	7.38	7.30
C1821A	Banner paper A4	297 × 210	100	41-19-67	6.64	7.45	7.23	7.01
C6042A	Greeting Card paper	297 × 210	20	41-28-32	4.86	5.45	5.29	5.13
516305	CX JetSeries Transparency Film	210 × 297	50	40-43-83	37.17	38.90	38.51	38.12
92296U	LaserJet Transparency Film	210 × 297	50	22-17-86	12.38	12.95	12.82	12.69
C2936A	Colour LaserJet Transparency Film	210 × 297	50	40-98-07	26.72	27.95	27.67	27.39

PHOTO PAPER

HP REF. NO.	DESCRIPTION	mm × mm	sheets/ pack	CAT NO	Web Price	PRICE PER PACK £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
C6040A	HP Premium Photo Paper A4	297 × 210	15	41-88-05	6.47	7.25	7.03	6.82
C6832A	Premium Plus Photo Paper	297 × 210	20	46-31-01	8.17	8.55	8.46	8.38
C6951A	Premium Plus Matte Photo Paper	297 × 210	20	46-94-86	8.55	8.95	8.86	8.77
C6832A	Premium Plus Glossy Photo Paper	297 × 210	20	46-31-01	8.17	8.55	8.46	8.38

PAPER

HP REF. NO.	DESCRIPTION	mm × mm	sheets/ pack	CAT NO	Web Price	PRICE PER PACK £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
C1825A	Bright White Inkjet Paper	210 × 297	500	41-16-13	7.08	7.95	7.71	7.48
C2976A	Colour LaserJet Glossy Paper	210 × 297	50	97-90-69	33.41	34.95	34.60	34.25

HP SPECIALIST PAPER CONTINUED ON 982

OTHER ITEMS

FOR PRINTERS SEE PAGES 371–458
FOR PHOTOCOPIERS SEE PAGE 481

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRINTER SUPPLIES

IBM™ LEXMARK

INKJET



PART NO.	DESCRIPTION	PAGE YIELD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
IBM 3852/4070/4072							
1380630	4070 Black Ink Cartridge	250	21-54-93	14.29	14.95	14.80	14.65
1380479	4072 ExecJet Black Ink Cartridge	—	21-18-82	10.55	10.95	10.84	10.73
1380479	4072 ExecJet Black Ink Cartridge (**5 pack**)	—	04-93-53	50.61	52.95	52.42	51.90
IBM WINWRITER 150C/4076							
13400HC	Black Ink Cartridge	1,000	23-30-94	17.87	18.70	18.51	18.33
13400HC	Black Ink Cartridge (**5 pack**)	5,000	04-93-60	85.18	88.45	87.57	86.69
13619HC	Tri-colour Ink Cartridge	200	23-04-47	20.98	21.95	21.73	21.51
IBM 4079/4079+							
1380490	4079/4079+ Black Ink Cartridge	200	21-48-72	11.23	11.75	11.63	11.52
1380490	4079/4079+ Black Ink Cartridge (**5 pack**)	1,000	04-93-77	55.87	58.45	57.87	57.29
1380491	4079/4079+ Cyan Ink Cartridge	200	21-48-89	15.72	16.45	16.29	16.12
1380492	4079/4079+ Magenta Ink Cartridge	200	21-48-96	15.72	16.45	16.29	16.12
1380493	4079/4079+ Yellow Ink Cartridge	200	21-49-06	15.72	16.45	16.29	16.12
COLORJET 1000/1020/1100							
13400HC	Black Ink Cartridge	1,000	23-30-94	17.87	18.70	18.51	18.33
13400HC	Black Ink Cartridge (**5 pack**)	5,000	04-93-60	85.18	88.45	87.57	86.69
13619HC	Tri-colour Ink Cartridge	200	23-04-47	20.98	21.95	21.73	21.51

IBM LEXMARK PRINTER SUPPLIES CONTINUED ON 983

OTHER ITEMS

FOR PRINTER STANDS SEE PAGE 489
FOR CONTINUOUS LISTING PAPER SEE PAGES 1019–1021

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

IBM LEXMARK PRINTERS SUPPLIES CONTINUED FROM PAGE 982

PRINTER SUPPLIES

IBM™ LEXMARK



INKJET

PART NO.	DESCRIPTION	PAGE YIELD	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
COLORJET 2030/2050/3000								
13620HC	High Yield Black Ink Cartridge	—	23-30-94	17.87	18.70	18.51	18.33	
13620HC	High Yield Black Ink Cartridge (**5 pack**)	5,000	04-93-60	85.18	88.45	87.57	86.69	
13619HC	High Yield Tri-colour Ink Cartridge	200	23-04-47	20.98	21.95	21.73	21.51	
1361760	Photo Colour Cartridge	200	23-04-54	23.06	23.95	23.71	23.47	✂
COLORJET 2070								
1382050	2070 Black Ink Cartridge	1,250	22-47-07	22.41	23.45	23.22	22.98	
1382060	2070 Colour Ink Cartridge	200	22-47-14	24.03	24.95	24.70	24.45	✂
COLORJET 320/5000/5700/7000/7200/C40/C45/Z11/Z51								
12A1970	Black Ink Cartridge	600	23-04-61	18.11	18.95	18.76	18.57	
12A1980	Tri-colour Ink Cartridge	200	23-04-78	20.50	21.45	21.24	21.02	
12A1990	Photo Ink Cartridge	200	23-04-85	22.89	23.95	23.71	23.47	
15M0120	High Resolution Colour Cart (Z51 only)	200	23-17-68	21.94	22.95	22.72	22.49	

MEDIA

PART NO.	DESCRIPTION	QUANTITY	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
1402650	A4 Premium Inkjet Paper	100 sheets	23-03-13	5.02	5.25	5.20	5.15
1402781	A4 High Resolution Premium Inkjet Paper	100 sheets	23-03-20	7.22	7.55	7.47	7.40
12A0808	A4 Inkjet Transparencies	50 sheets	23-03-37	21.62	22.45	22.23	22.00
1372208	A4 Inkjet Photo Paper	20 sheets	23-03-44	7.89	8.25	8.17	8.09
1372361	Inkjet Glossy Film	50 sheets	23-03-68	19.55	20.45	20.25	20.04
1402519	A4 Iron-On Transfers	10 sheets	23-04-09	8.94	9.35	9.26	9.16
1372084	A4 Transparency Film (210×297mm)	50 sheets	23-04-16	33.69	35.25	34.90	34.55

IBM LEXMARK PRINTER SUPPLIES CONTINUED ON 984

OTHER ITEMS

FOR PRINTER STANDS SEE PAGE 489
FOR CONTINUOUS LISTING PAPER SEE PAGES 1019–1021

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

IBM LEXMARK PRINTER SUPPLIES CONTINUED FROM 983

PRINTER SUPPLIES

IBM™ LEXMARK



LASER

PART NO.	DESCRIPTION	PAGE YIELD	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
IBM 3812							
1348349	3812 Black Toner Cartridge	16,500	20-46-31	57.73	59.95	59.35	58.76
IBM 3816							
6190726	3816 Black Toner Cartridge	18,000	21-54-17	60.62	62.95	62.32	61.70
IBM 3916							
1380850	3916 Black Toner Cartridge	7,000	21-53-76	109.53	◗	113.45	112.32
1380950	3916 Marathon Toner Cartridge	12,800	21-53-83	129.32	◗	133.95	132.61
IBM 4019/4029 & LEXMARK WINWRITER							
1380520	4019/4029/WinWriter 600 Black Toner Cart.	9,500	21-12-84	116.36	◗	125.95	119.95
1427090	WinWriter 200 Black Toner Cartridge	4,500	21-73-43	101.33	◗	104.95	103.90
1382760	WinWriter 400/IBM 4037 Black Toner Cartridge	3,500	21-73-50	60.17	62.95	62.32	61.70
IBM 4039							
1380850	4039 Black Toner Cartridge	7,000	21-53-76	109.53	◗	113.45	112.32
1380950	4039 Marathon Toner Cartridge	12,800	21-53-83	129.32	◗	133.95	132.61

IBM LEXMARK PRINTER SUPPLIES CONTINUED ON 985

OTHER ITEMS

FOR PRINT SERVERS SEE PAGES 705–714

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

IBM LEXMARK PRINTER SUPPLIES CONTINUED FROM 984

PRINTER SUPPLIES

IBM LEXMARK

LASER

PART NO.	DESCRIPTION	PAGE YIELD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
OPTRA M								
4K00198	Optra M410 Toner Cartridge	5,000	23-70-24	64.48	66.95	66.28	65.62	✂
4K00199	Optra M410 Toner Cartridge	10,000	23-22-67	110.98	◗	114.95	113.80	✂
4K00196	Optra M410 Charge Roller	–	23-17-25	8.08	8.45	8.37	8.28	
LEXMARK OPTRA N								
1401098	Optra N Toner Cartridge	15,000	23-07-39	83.11	86.95	86.08	85.22	✂
1382226	Optra N Transfer Rolls	150,000	22-46-97	40.57	42.45	42.03	41.61	
LEXMARK OPTRA R/RX/L/LX								
1382100	Optra R/RX/L/LX	7,000	21-75-32	106.15	◗	109.95	108.85	
1392150	Optra R/RX/L/LX Diamond Fine Cart	14,000	21-75-49	138.01	◗	142.95	141.52	
1392150	Optra R/RX/L/LX Diamond Fine Cart **(5 pack)**	70,000	04-25-18	645.87	◗	663.95	657.31	✂
LEXMARK OPTRA S								
1382920	Optra S Black Toner	7,500	22-84-59	95.44	99.85	98.85	97.86	
1382925	Optra S Marathon Black Toner Cartridge	17,600	22-84-66	120.64	◗	124.95	123.70	
LEXMARK OPTRA SC 1275/1275N								
1361751	Optra SC Black Toner Cartridge	4,500	23-02-65	40.10	41.95	41.53	41.12	
1381752	Optra SC Cyan Toner Cartridge	3,500	23-02-72	36.27	37.95	37.57	37.19	
1381753	Optra SC Magenta Toner Cartridge	3,500	23-02-89	37.23	38.95	38.56	38.17	
1381754	Optra SC Yellow Toner Cartridge	3,500	23-02-96	37.23	38.95	38.56	38.17	
1361750	Optra SC Photoconductor Kit	20,000	23-03-06	68.87	72.05	71.33	70.62	
OPTRA T								
12A5740	Optra T Toner Cartridge	10,000	23-49-50	133.19	◗	137.95	136.57	
12A5745	Optra T High Yield Toner Cartridge	25,000	23-12-48	217.18	◗	224.95	222.70	✂
12A5840	Optra T Prebate Toner Cartridge	10,000	23-08-40	99.40	◗	102.95	101.92	
12A5845	Optra T High Yield Prebate Toner Cartridge	25,000	23-38-97	183.39	◗	189.95	188.05	
12A5849	Optra T High Yield Prebate Label Toner Cartridge	25,000	23-27-73	183.39	◗	189.95	188.05	
OPTRA W								
12L0250	Optra W810 Toner Cartridge	20,000	23-98-35	79.29	82.95	82.12	81.30	
12L0251	Optra W810 Drum Unit	–	23-36-82	270.28	◗	279.95	277.15	
NETWORK PRINTER 12/17/24								
63H3005	Network Printer 12 Toner Cartridge	6,000	22-69-18	66.38	69.45	68.76	68.07	
63H2401	Network Printer 17 Toner Cartridge	10,000	22-63-58	123.05	◗	127.45	126.18	
63H5271	Network Printer 24 Toner Cartridge	15,000	22-69-25	109.05	◗	112.95	111.82	✂

IBM LEXMARK PRINTER SUPPLIES CONTINUED ON 986

OTHER ITEMS

FOR DOT MATRIX PRINTERS SEE PAGES 441–451
FOR CLEANING PRODUCTS SEE PAGES 534–540

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

IBM LEXMARK PRINTERS SUPPLIES CONTINUED FROM 985

PRINTER SUPPLIES

IBM™ LEXMARK

RIBBONS

PART NO.	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
1040930	2380/81/90/91 Black Ribbon	21-39-69	5.97	6.25	6.19	6.13
1040930	2380/81/90/91 Black Ribbon (**10 pack**)	04-25-25	53.48	55.95	55.39	54.84
7819690	3262 Black Ribbon	20-31-20	10.47	10.95	10.84	10.73
7819690	3262 Black Ribbon (**10 pack**)	04-49-70	97.61	◗	105.95	102.95
7032821	3268 Models I and II Black Ribbon	20-31-51	9.32	9.75	9.65	9.56
6328829	4201 Black Ribbon	20-31-37	4.73	4.95	4.90	4.85
1040150	4202/10 Black Ribbon	20-44-35	7.12	7.45	7.38	7.30
1040150	4202/10 Black Ribbon (**5 pack**)	04-49-87	33.22	34.50	34.16	33.81
1040414	4208 Black Ribbon	20-60-93	7.60	7.95	7.87	7.79
1040414	4208 Black Ribbon (**5 pack**)	04-89-83	37.04	38.75	38.36	37.98
6329929	4214 Black Ribbon	20-31-44	18.59	19.45	19.26	19.06
1040440	4224 14mm Black Ribbon	20-31-75	9.51	9.95	9.85	9.75
1040440	4224 14mm Black Ribbon (**10 pack**)	04-25-32	91.44	94.95	94.00	93.06
6115549	4224 27mm Black Ribbon	20-31-82	14.00	14.65	14.50	14.36
1040864	4226 Black Ribbon	21-98-46	23.37	24.45	24.21	23.96
1040282	4234 Black Ribbon	20-92-41	40.10	41.95	41.53	41.12
1040282	4234 Black Ribbon (**10 pack**)	04-25-63	373.59	◗	386.95	383.08
6295158	4234 001/002 Black Ribbon	20-44-42	25.76	26.95	26.68	26.41
6295158	4234 001/002 Black Ribbon (**10 pack**)	04-49-94	237.46	◗	245.95	243.49
1299790	5201 QuietWriter I and II Black Ribbon	20-32-78	8.55	8.95	8.86	8.77
1299933	5202 QuietWriter III Black Ribbon	20-52-90	12.86	13.45	13.32	13.18
1299933	5202 QuietWriter III Black Ribbon (**10 pack**)	04-25-56	116.68	◗	119.95	118.75
1319308	5204 Black Ribbon	20-78-27	8.55	8.95	8.86	8.77
1319308	5204 Black Ribbon (**5 pack**)	04-50-03	41.05	42.95	42.52	42.10
1319300	5204 Black Film Ribbon	20-78-10	8.55	8.95	8.86	8.77
6845100	5224 Black Ribbon	20-32-30	23.37	24.45	24.21	23.96
6845100	5224 Black Ribbon (**5 pack**)	04-50-10	115.62	◗	119.75	118.55
4412372	5225 Black Ribbon	20-31-13	29.58	30.95	30.64	30.33
1040990	6408 General Purpose Ribbon	21-98-77	6.17	6.45	6.39	6.32
1040990	6408 General Purpose Ribbon (**10 pack**)	04-25-49	57.78	60.45	59.85	59.25
1299845	Easystrike High Yield Correctable Ribbon	20-33-19	3.58	3.75	3.71	3.68
1337765	Easystrike Lift-Off Tape	20-33-26	2.63	2.95	2.86	2.78

OTHER ITEMS

FOR DOT MATRIX PRINTERS SEE APGES 441–451
FOR CLEANING PRODUCTS SEE PAGES 534–540

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRINTER SUPPLIES

KYOCERA

LASER COMPATIBILITY CHART

KEY:

● = Black Ink

Kyocera Ref.	Description	Cat. No.	F800/800T	F-820/FS-850	F-1000/1010/1200/1200S	F-1800	F-2010	F-2200/2200S	F-3000	FS-3700	F-5000/FS-5500	FS-400	FS-600/800	FS-1200	FS-1500/3500	FS-1550/1600/3600	P-2000/2002	FS-7000
TK-2	Toner Cartridge	20-86-37							●									
TK-3	Toner Cartridge	20-78-72						●										
TK-4	Toner Cartridge	20-91-48			●		●										●	
TK-6	Toner Cartridge	20-99-66	●	●											●			
TK-7	Toner Cartridge	21-09-48				●												
TK-8	Toner Cartridge	21-19-85									●							
TK-9	Toner Cartridge	21-41-02													●			
TK-11	Toner Cartridge	21-79-89										●						
TK-12	Toner Cartridge	21-69-35														●		
TK-16	Toner Cartridge	22-89-09											●					
TK-30	Toner Cartridge	22-84-80																●
DK-2	Drum Unit	20-86-68							●									
DK-3	Drum Unit	20-63-92			●		●	●									●	
DK-5	Drum Unit	20-99-42		●														
DK-6	Drum Unit	21-09-55	●			●												
DK-7	Drum Unit	21-19-92									●							
FK-2	FuserUnit	20-86-51							●									
FK-3	FuserUnit	20-78-96						●										
FK-4	FuserUnit	20-91-31			●												●	
FK-5	FuserUnit	20-99-59	●															
FK-6	FuserUnit	21-10-95				●												
FK-7	FuserUnit	21-09-79									●							
FK-8	FuserUnit	21-20-18					●	●										
FK-9	FuserUnit	21-20-25		●														
W-3	FuserUnit	20-92-10					●		●									
DV-3	Developer Unit	20-86-44																
DV-4	Developer Unit	20-91-24			●		●											
DV-5	Developer Unit	20-78-89						●										
DV-9	Developer Unit	21-20-32															●	
DV-10	Developer Unit	20-99-35	●	●														
DV-11	Developer Unit	21-09-62				●												
DV-12	Developer Unit	21-20-01									●							
DK-21	Drum Unit	23-70-25								●								
TK-25	Toner Cartridge	23-22-68			●									●				
TK-20H	Toner Cartridge	22-65-09								●								
DK-22	Drum Unit	23-17-66																

OTHER ITEMS

FOR LASER PRINTERS SEE PAGES 404–437

www.action.com

THE BEST PLACE TO BUY IT PRODUCTS ONLINE

Save £££'s!

Check live stock

Track order status

Lower prices on-line at action.com

KYOCERA PRINTER SUPPLIES CONTINUED FROM 987

PRINTER SUPPLIES

KYOCERA

LASER ECOSYS

PART NO.	DESCRIPTION	PAGE YIELD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
KYOCERA FS-400							
TK11	FS-400 Black Toner Cartridge	1,200	21-79-89	11.37	11.90	11.78	11.66
KYOCERA FS-600/800							
TK16	FS-600/800 Black Toner Cartridge	3,000	22-89-09	27.38	28.65	28.36	28.08
KYOCERA FS-850/F-800/820							
TK6	FS-850/F-800/820 Toner Cartridge (**2 pack**)	4,000	20-99-66	20.45	22.95	22.26	21.59
DV10	FS-850/F-800/820 Developer Unit	20,000	20-99-35	65.90	68.95	68.26	67.58
DK5	FS-850/F-800/820 Drum Unit	12,000	20-99-42	92.86	97.15	96.18	95.22
FS-1200							
TK25	FS-3700 Drum Unit	—	23-22-68	44.88	46.95	46.48	46.02
KYOCERA FS-1500/1550/1600/+/3400/3600/+/6500							
TK12	FS-1500/1550/1600/+/3400/3600/+/6500 Toner Cartridge	10,000	21-69-35	34.27	35.85	35.49	35.14
DK53	FS-1550/1600 Drum Unit	3,000	22-94-10	285.22	➧	289.95	288.21
KYOCERA FS-1500/3500							
TK9	FS-1500/3500 Toner Cartridge	7,000	21-41-02	24.80	25.95	25.69	25.43
KYOCERA FS-1700/1750/3700/3750							
TK-20H	FS-1700/1750/3700/3750 Toner Cartridge	15,000	22-65-09	43.73	45.75	45.29	44.84
DK22	FS-1700 Drum Unit	—	23-17-66	243.14	➧	249.95	247.45
KYOCERA FS-7000/FS-9000							
TK30	FS-7000/FS-9000 Toner Cartridge	25,000	22-84-80	71.64	74.95	74.20	73.46
KYOCERA F-1000/1010/1020/2010							
TK4	F-1000/1010/1200/2010 Toner Cartridge (**2 pack**)	3,000	20-91-48	35.32	36.95	36.58	36.21
DK3	F-1000/1010/1200/2010 Drum Unit	10,000	20-63-92	85.98	89.95	89.05	88.16
KYOCERA F-1800/3300							
TK7	F-1800/3300 Toner Cartridge (**2 pack**)	4,000	21-09-48	39.14	40.95	40.54	40.14
KYOCERA P-2000/2002							
TK4	P-2000/2002 Toner Cartridge (**2 pack**)	3,000	20-91-48	35.32	36.95	36.58	36.21
DK3	P-2000/2002 Drum Unit	10,000	20-63-92	85.98	89.95	89.05	88.16
KYOCERA F-2200							
TK3	F-2200 Toner Cartridge (**2 pack**)	3,000	20-78-72	18.11	18.95	18.76	18.57
KYOCERA F-3000							
TK2	F-3000 Toner Cartridge (**2 pack**)	3,000	20-86-37	33.88	35.45	35.10	34.74

OTHER ITEMS

FOR INKJET PRINTERS SEE PAGES 374–396
FOR LASER PRINTERS SEE PAGES 404–437
FOR PRINT SERVERS SEE PAGES 705–714

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LASER COMPATIBILITY CHART

KEY:
● = Black Ink ● = Magenta Ink
● = Cyan Ink ● = Yellow Ink

OKI Ref.	Description	Cat. No.	OL400	OL400E	OL400EX	OL410	OL410EX	OL600EX	OL610EX	OL800	OL810	OL810EX	OL830	OL840	OL850	4W	4W+	6E	6EX	8C	8P	16N	1200EX	10/12i	20N
4452	Black Toner Cartridge	21-07-04	●			●				●	●			●											
4459	EP Drum Cartridge	21-07-11	●			●				●	●			●											
4851	Black Toner Cartridge	20-00-82		●	●		●	●	●			●						●	●						
4858	EP Drum Cartridge	20-00-99		●	●		●	●	●			●						●	●						
5075	Black Toner Cartridge	22-63-03																				●			
5082	EP Drum Cartridge	22-65-30																					●		
5089	Black Toner Cartridge	22-33-75														●	●								
5096	EP Drum Cartridge	22-33-82														●	●								
5115	EP Drum Cartridge	22-93-93																				●			
5122	Black Toner Cartridge	22-97-64																						●	
5129	EP Drum Cartridge	22-97-71																						●	
5136	Black Toner Cartridge	22-97-88																							●
5143	EP Drum Cartridge	22-97-95																							●
5150	Black Toner Cartridge	23-07-46																		●					
5171	Cyan Toner Cartridge	23-07-77																		●					
5164	Magenta Toner Cartridge	23-07-60																		●					
5157	Yellow Toner Cartridge	23-07-53																		●					
5178	Black EP Drum Cartridge	23-07-84																		●					
5199	Cyan EP Drum Cartridge	23-08-18																		●					
5192	Magenta EP Drum Cartridge	23-08-01																		●					
5185	Yellow EP Drum Cartridge	23-07-91																		●					
5241	Black Toner Cartridge	23-16-73																			●				
5248	Black Drum Cartridge	23-16-80																			●				

OTHER ITEMS

FOR INKJET PRINTERS SEE PAGES 374–396

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRINTER SUPPLIES

OKI



LASER

PART NO.	DESCRIPTION	PAGE YIELD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
OL 400/410/800/810/830/840/850							
4452	OL 400/410/800/810/830/840/850/Toner Cartridge	2,500	21-07-04	15.34	16.05	15.89	15.73
4459	OL 400/10/800/10/30/40/50 DOC-IT EP Cart.	12,000	21-07-11	126.41	♦	129.95	128.65
OKI 400E/400EX/410EX/600/610EX/810EX/6E/6EX							
4851	400E/400EX/410EX/600/610EX/6E/ 6EX/810EXToner Cartridge	2,000	20-00-82	13.05	13.65	13.51	13.38
4858	400E/400EX/410EX/600/ 610EX/6E/6EX/810EX EP Cartridge	20,000	20-00-99	95.53	99.95	98.95	97.96
OKI 4W/4W+							
5089	4W/4W+ Toner Cartridge	1,000	22-33-75	11.42	11.95	11.83	11.71
5096	4W/4W+ DOC-IT EP Cartridge	10,000	22-33-82	62.08	64.95	64.30	63.66
OKI 1200EX							
5075	L1200EX Toner Cartridge	5,000	22-63-03	21.46	22.45	22.23	22.00
5082	L1200EX EP Cartridge	30,000	22-65-30	180.49	♦	186.95	185.08

OKI PRINTER SUPPLIES CONTINUED ON 991

OTHER ITEMS

FOR INKJET PRINTERS SEE PAGES 374–396
FOR LASER PRINTERS SEE PAGES 404–437

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

OKI PRINTER SUPPLIES CONTINUED FROM 990

PRINTER SUPPLIES

OKI

LASER

PART NO.	DESCRIPTION	PAGE YIELD	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
OKI 8C/8CEN								
41012305	Black Toner Cartridge	–	23-18-02	15.25	15.95	15.79	15.63	NEW
41012306	Yellow Toner Cartridge	–	23-31-09	19.55	20.45	20.25	20.04	NEW
41012307	Magenta Toner Cartridge	–	23-53-75	20.02	20.95	20.74	20.53	NEW
41012308	Cyan Toner Cartridge	–	23-53-76	20.02	20.95	20.74	20.53	NEW
40645402	Waste Toner Cartridge	–	23-31-17	12.38	12.95	12.82	12.69	NEW
40645302	Oil Roller Kit	–	23-53-83	42.96	44.95	44.50	44.06	NEW
5220	8C Fuser Unit	60,000	23-08-25	121.60	◗	125.95	124.69	
5227	8C OPC Belt Kit	50,000	23-08-32	183.39	◗	189.95	188.05	
OKI 10i/12i								
5122	10i Toner Cartridge	2,000	22-97-64	15.36	15.95	15.79	15.63	
5129	10i EP Cartridge	20,000	22-97-71	95.53	99.95	98.95	97.96	
OKI 16N								
5075	16N Toner Cartridge	5,000	22-63-03	21.46	22.45	22.23	22.00	
5115	16N EP Cartridge	10,000	22-93-93	151.53	◗	156.95	155.38	
OKI 20N								
5136	20N Toner Cartridge	5,000	22-97-88	21.65	22.65	22.42	22.20	
5143	20N EP Cartridge	30,000	22-97-95	140.91	◗	145.95	144.49	
OKI 8P								
5241	Black Toner Cartridge	—	23-16-73	10.47	10.95	10.84	10.73	
5248	Black Drum Cartridge	—	23-16-80	52.04	54.45	53.91	53.37	
OKI DP-5000								
41067601	Cyan Ink Cartridge	—	23-17-36	5.97	6.25	6.19	6.13	
41067602	Magenta Ink Cartridge	—	23-70-35	5.97	6.25	6.19	6.13	
41067603	Yellow Ink Cartridge	—	23-22-80	5.97	6.25	6.19	6.13	
41067604	Black Ink Cartridge	—	23-12-61	5.97	6.25	6.19	6.13	

INKJET

PART NO.	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
5061	OKIJet 300/2010 Black Ink Cartridge	22-18-89	18.59	19.45	19.26	19.06
5068	OKIJet 300/2010 Tri-Colour Ink Cartridge	22-18-96	23.85	24.95	24.70	24.45

OKI FAX SUPPLIES CONTINUED ON 992

OTHER ITEMS

FOR INKJET PRINTERS SEE PAGES 374–396
FOR LASER PRINTERS SEE PAGES 404–437

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

OKI PRINTER SUPPLIES CONTINUED FROM 991

FAX SUPPLIES

OKI

NO	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
1595	Microline 182/183/192/280/320/321/3320/3321 Black Ribbon	20-26-02	4.06	4.25	4.21	4.17
1595	Microline 182/3/192/280/321/3320/1 Black Ribbon **(10 pack)**	04-63-56	36.04	37.95	37.75	37.50
1602	Microline 292 Black Ribbon	20-40-33	6.26	6.55	6.48	6.42
1609	Microline 292 Colour Ribbon	22-00-55	9.51	9.95	9.85	9.75
1616	Microline 293/294 Black Ribbon	20-40-57	9.51	9.95	9.85	9.75
1616	Microline 293/294 Black Ribbon **(5 pack)**	04-90-16	46.18	47.95	47.47	47.00
1623	Microline 293/294 Colour Ribbon	20-40-64	13.81	14.45	14.31	14.16
2569	Microline 380/385/390/391/3390/3391 Black Ribbon	20-75-28	4.92	5.15	5.10	5.05
2569	Microline 380/5/390/1/3390/1 Black Ribbon **(10 pack)**	04-63-63	46.79	48.95	48.46	47.98
1630	Microline 393/395 Black Ribbon	20-63-61	12.86	13.45	13.32	13.18
1630	Microline 393/395 Black Ribbon **(10 pack)**	04-63-70	122.92	◗	129.00	128.00
1637	Microline 393/395 Colour Ribbon	20-63-78	19.07	19.95	19.75	19.55
4809	Microline 320/390 Flatbed Ribbon	11-40-20	5.50	5.75	5.69	5.64
4816	Microline 3410 Black Ribbon	22-00-24	16.97	17.75	17.57	17.40
4816	Microline 3410 Black Ribbon **(5 pack)**	04-90-09	81.20	84.95	84.10	83.26
4837	Microline 520/521 Black Ribbon	21-50-08	6.68	6.99	6.92	6.85
4837	Microline 520/521 Black Ribbon **(10 pack)**	04-26-80	57.73	59.95	59.35	58.76
4823	Microline 590/591 Black Ribbon	21-49-37	6.17	6.45	6.39	6.32
4823	Microline 590/591 Black Ribbon **(10 pack)**	04-26-97	58.26	60.95	60.34	59.74
4830	Microline 590/591 Colour Ribbon	21-49-44	18.11	18.95	18.76	18.57
2282	2350/2410 Black Ribbon **(5 pack)**	04-89-90	81.20	84.95	84.10	83.26

FAX SUPPLIES

OKI

5061	OkiFax 740/740MF Black Ink Cartridge	—	22-18-89	18.59	19.45	19.26	19.06
5068	OkiFax 740/740MF Tri-Colour Ink Cartridge	—	22-18-96	23.85	24.95	24.70	24.45
4452	OkiFax 110/150/2300 Black Toner Cartridge	2,500	21-07-04	15.34	16.05	15.89	15.73
4459	OkiFax 110/150/2300 DOC-IT EP Cartridge	12,000	21-07-11	126.41	◗	129.95	128.65
4851	OkiFax 1000/2200/2350/ 2450/2600/5200/5500 Black Toner Cartridge	2,000	20-00-82	13.05	13.65	13.51	13.38
4858	OkiFax 1000/2200/2350/2400/ 2450/2600/5200/5500 DOC-IT EP Cartridge	20,000	20-00-99	95.53	99.95	98.95	97.96
5089	OkiFax 4100 Black Toner Cartridge	1,000	22-33-75	11.42	11.95	11.83	11.71
5096	OkiFax 4100 DOC-IT EP	10,000	22-33-82	62.08	64.95	64.30	63.66

OTHER ITEMS

FOR INKJET PRINTERS SEE PAGES 374–396
FOR LASER PRINTERS SEE PAGES 404–437

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRINTER SUPPLIES

Panasonic

LASER COMPATIBILITY CHART

KEY:

● = Black Ink
● = Cyan Ink
● = Magenta Ink
● = Yellow Ink

Panasonic Ref.	Description	Cat. No.	KX-P4400	KX-P4410	KX-P4420	KX-P4430	KX-P4440	KX-P4450	KX-P4450i	KX-P4451	KX-P4455	KX-P5400	KX-P6100	KX-P6150	KX-P6300	KX-P6500	KX-P8410	KX-P8420
KX-P455	Black Toner Cartridge	21-61-00	●									●						
KX-PDM6	Drum Unit	21-61-17	●									●						
KX-PFS6	Fuser Unit	21-69-11					●											
KX-P453	Black Toner Cartridge	21-41-26		●		●	●											
KX-PDM5	Drum Unit	21-64-53		●			●											
KX-PDP5	Developer Unit	21-67-77		●		●	●											
KX-PFS5	Fuser Unit	21-41-57		●		●												
KX-P451	Black Toner Cartridge	21-05-91			●													
KX-PDM2	Drum Unit	21-06-01			●													
KX-PDP2	Developer Unit	21-06-18			●													
KX-PFS2	Fuser Unit	21-06-25			●													
KX-PFT2	Ozone Filter	21-41-19			●													
KX-P450	Black Toner Cartridge	20-79-13						●	●	●	●							
KX-PDM1	Drum Unit	20-79-44						●	●	●	●							
KX-PDP1	Developer Unit	20-79-20						●	●	●	●							
KX-PFS1	Fuser Unit	20-79-37						●	●	●	●							
KX-PFT1	Ozone Filter	20-89-98						●	●	●	●							
KX-PCR1	Corona Wire	21-14-73						●	●	●	●							
KX-P457	Black Toner Cartridge	21-80-74											●	●				
KX-PEP3	Process Unit	21-80-81											●	●				
KX-P459	Black Toner Cartridge	22-32-27													●	●		
KX-PEP5	Process Unit	22-32-34													●	●		
KX-PDPK6	Black Toner Cartridge	23-01-86															●	●
KX-PDPC6	Cyan Toner Cartridge	23-01-93															●	●
KX-PDPM6	Magenta Toner Cartridge	23-02-03															●	●
KX-PDPY6	Yellow Toner Cartridge	23-02-10															●	●
KX-PFSU6	Fuser Unit	23-02-27															●	
KX-PPRC6	Imaging Unit	23-02-34															●	
KX-PTRU6	Transfer Unit	23-02-41															●	●
KX-PPRCA	Imaging Unit	23-17-60															●	●
KX-PFSU6A	Fuser Unit	23-30-88															●	●

OTHER ITEMS

FOR LASER PRINTERS SEE PAGES 404–437

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRINTER SUPPLIES

Panasonic





LASER

PART NO.	DESCRIPTION	PAGE YIELD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
TONER CARTRIDGES							
KX-P455	KX-P4400/5400 Toner Cartridge	1,600	21-61-00	9.51	9.95	9.85	9.75
KX-P453	KX-P 4410/4430/4440 Toner Cartridge	3,000	21-41-26	18.11	18.95	18.76	18.57
KX-P451	KX-P4420 Toner Cartridge	3,000	21-05-91	20.98	21.95	21.73	21.51
KX-P450	KX-P4450/4450i/4451/4455 Toner Cartridge	5,000	20-79-13	16.20	16.95	16.78	16.61
KX-P457	KX-P6100/KX-P6150 Toner Cartridge	2,000	21-80-74	9.03	9.45	9.36	9.26
KX-P459	KX-P6300/P6500 Toner Cartridge	2,000	22-32-27	9.03	9.45	9.36	9.26
KX-PDPK6	KX-P8410/KX-P8420 Black Toner Cartridge	12,000	23-01-86	55.39	57.95	57.37	56.80
KX-PDPC6	KX-P8410/KX-P8420 Cyan Toner Cartridge	10,000	23-01-93	115.81	◗	119.95	118.75
KX-PDPM6	KX-P8410/KX-P8420 Magenta Toner Cartridge	10,000	23-02-03	118.70	◗	122.95	121.72
KX-PDPY6	KX-P8410/KX-P8420 Yellow Toner Cartridge	10,000	23-02-10	122.57	◗	126.95	125.68
DRUM UNITS							
KX-PDM6	KX-P4400/5400 Drum Unit	6,000	21-61-17	50.61	52.95	52.42	51.90
KX-PDM5	KX-P 4410/4440 Drum Unit	12,000	21-67-53	66.86	69.95	69.25	68.56
KX-PDM2	KX-P4420 Drum Unit	18,000	21-06-01	53.48	55.95	55.39	54.84
KX-PDM1	KX-P4450/4450i/4451/4455 Drum Unit	13,000	20-79-44	65.90	68.95	68.26	67.58
DEVELOPER UNITS							
KX-PDP5	KX-P 4410/4430/4440 Developer Unit	90,000	21-67-77	79.29	82.95	82.12	81.30
KX-PDP2	KX-P4420 Developer Unit	18,000	21-06-18	54.43	56.95	56.38	55.82
KX-PDP1	KX-P4450/4450i/4451/4455 Dev. Kit	20,000	20-79-20	52.52	54.95	54.40	53.86
IMAGING UNITS							
KX-PPRC6	KX-P8410 Imaging Unit	60,000	23-02-34	237.75	◗	239.95	238.51
KX-PPRCA	KX-P8420 Imaging Unit	60,000	23-17-60	236.03	◗	239.95	238.51
TRANSFER UNITS							
KX-PTRU6	KX-P8410 Transfer Unit	60,000	23-02-41	20.88	21.85	21.63	21.42

PANASONIC PRINTER SUPPLIES CONTINUED ON 995

OTHER ITEMS

FOR LASER PRINTERS SEE PAGES 404–437
FOR PRINT SERVERS SEE PAGES 705–714

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRINTER SUPPLIES

Panasonic

LASER

PART NO.	DESCRIPTION	PAGE YIELD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
FUSER UNITS							
KX-PFS5	KXVP 4410/4430 Fuser Unit	36,000	21-41-57	101.33	➧	104.95	103.90
KX-PFS2	KX-P4420 Fuser Unit	36,000	21-06-25	70.68	73.95	73.21	72.48
KX-PFS6	KX-P 4440 Fuser Unit	36,000	21-69-11	106.15	➧	109.95	108.85
KX-PFS1	KX-P4450/4450i/4451/4455 Fuser Unit	60,000	20-79-37	91.71	95.95	94.99	94.04
KX-PFSV6	KX-P8410 Fuser Unit	30,000	23-02-27	213.96	➧	219.95	217.75
KX-PFSU6A	KX-P8420 Fuser Unit	30,000	23-30-88	213.96	➧	219.95	217.75
PROCESS UNITS							
KX-PEP3	KX-P6100/KX-P6150 Process Unit	12,000	21-80-81	86.90	89.95	89.05	88.16
KX-PEP5	KX-P6300/P6500 Process Unit	12,000	22-32-34	105.98	➧	108.95	107.86
KX-PEP6	KX-P7200 Process Unit	10,000	22-95-20	121.60	➧	125.95	124.69
OZONE FILTERS							
KX-PFT2	KX-P4420 Ozone Filter	18,000	21-41-19	6.64	6.95	6.88	6.81
KX-PFT1	KX-P4450/4450i/4451/4455 Ozone Filter	30,000	20-89-98	15.25	15.95	15.79	15.63
CORONA WIRE							
KX-PCR1	KX-P4450/4450i/4451/4455 Corona Wire	60,000	21-14-73	14.29	14.95	14.80	14.65

RIBBONS

KX-P115	KX-P1081/1150/1170/1180/1695/1892 Black Ribbon	20-89-81	4.32	4.85	4.70	4.56
KX-P115	KX-P1081/1150/1180/1892 Black Ribbon (**5 pack**)	04-93-84	20.98	21.95	21.73	21.51
KX-P145	KX-P1123/1124/2023 Black Ribbon	20-88-64	3.78	3.95	3.91	3.87
KX-P145	KX-P1123/1124/2023 Black Ribbon (**5 pack**)	04-93-91	17.16	17.95	17.77	17.59
KX-P155	KX-P1624/1654/2624 Black Ribbon	21-06-63	5.69	5.95	5.89	5.83
KX-P155	KX-P1624/1654/2624 Black Ribbon (**5 pack**)	04-94-01	26.72	27.95	27.67	27.39
KX-P150	KX-P2180/2133 Black Ribbon	21-44-32	6.45	6.75	6.68	6.62
KX-P150	KX-P2180/2133 Black Ribbon (**5 pack**)	04-94-18	28.63	29.95	29.65	29.35
KX-P150C	KX-P2180/2123 Coulour Ribbon	21-44-49	10.85	11.35	11.24	11.12
KX-P150C	KX-P2180/2123 Colour Ribbon (**5 pack**)	04-94-25	50.61	52.95	52.42	51.90
KX-P160	KX-P2135 Black Ribbon	21-71-61	6.17	6.45	6.39	6.32
KX-P160	KX-P2135 Black Ribbon (**5 pack**)	04-94-32	29.58	30.95	30.64	30.33
KX-P165	KX-P2135 Colour Ribbon	21-71-78	10.94	11.45	11.34	11.22
KX-P165	KX-P2135 Colour Ribbon (**5 pack**)	04-94-49	53.48	55.95	55.39	54.84
KX-P191	KX-P3196 Black Ribbon	23-17-82	14.77	15.45	15.30	15.14
KX-P170	KX-P3626/3696 Black Ribbon	21-72-88	7.60	7.95	7.87	7.79
KX-P170	KX-P3626/3696 Black Ribbon (**5 pack**)	04-94-56	36.14	38.15	37.77	37.39
KX-P181	KX-P3200 Black Ribbon	22-96-09	9.76	10.95	10.62	10.30
KX-P181	KX-P3200 Black Ribbon (**5 pack**)	04-94-63	48.70	50.95	50.44	49.94

OTHER ITEMS

FOR LASER PRINTERS SEE PAGES 404–437
FOR PRINT SERVERS SEE PAGES 705–714

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

▼ NEW item on this page ▼

PANASONIC PRINTER SUPPLIES CONTINUED FROM 995

FAX SUPPLIES

Panasonic

PART NO.	DESCRIPTION	YIELD (PAGES)	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
PC-60BK	PanaFax UF305/315/322/332 Black Ink Cartridge	—	94-93-05	20.98	21.95	21.73	21.51
PC-60BK	PanaFax UF305/315/322/332 Black Ink Cartridge (**5 pack**)	—	04-53-88	95.53	99.95	98.95	97.96
UG-3502	PanaFax UF342/344 Black Print Cartridge	1,400	98-76-42	22.82	24.95	24.65	24.30
UG-3503	PanaFax UF342/344 Colour Print Cartridge	*	99-77-42	33.13	35.95	34.95	33.95
UG-3505	PanaFax UF342/344 Black Ink Refill	350	99-84-28	5.80	6.50	6.25	6.00
UG-3505	PanaFax UF342/344 Black Ink Refill (**5 pack**)	1,750	04-53-95	29.10	30.45	30.15	29.84
UG-3504	PanaFax UF342/344 Colour Ink Refill	90	99-84-11	13.29	14.75	14.50	14.30
UG-3313	PanaFax UF550/560/770/880 Black Toner Cartridge	10,000	84-82-24	95.53	99.95	98.95	97.96
NEW UG-3313	PanaFax UF550/560/770/880 Black Toner Cartridge (**5 pack**)	50,000	04-18-23	458.35	➧	465.95	463.15
UG-3202	PanaFax UF733 Black Toner Cartridge	3,000	21-42-50	28.63	29.95	29.65	29.35
UG-3202	PanaFax UF733 Black Toner Cartridge (**5 pack**)	15,000	04-54-05	139.95	➧	144.95	143.50
UG-3302	PanaFax UF733 Process Kit	12,000	21-42-67	180.89	➧	185.95	184.09
UG-3309	PanaFax UF744/788 Black Toner Cartridge	10,000	22-04-88	114.84	➧	118.95	117.76
UG-4501	PanaFax UF744/788 Ozone Filter	30,000	88-41-61	6.91	7.75	7.50	7.25
UG-3204	PanaFax UF745/755 Black Toner Cartridge	8,000	21-64-16	84.06	87.95	87.07	86.20
KX-P450	PanaFax UF750 Black Toner Cartridge	5,000	20-79-13	16.20	16.95	16.78	16.61
KX-PDM1	PanaFax UF750 Drum Unit	13,000	20-79-44	65.90	68.95	68.26	67.58
KX-PDP1	PanaFax UF750 Developer Unit	20,000	20-79-20	52.52	54.95	54.40	53.86
KX-PFT1	PanaFax UF750 Ozone Filter	30,000	20-89-98	15.25	15.95	15.79	15.63
✂ KX-PFS3	PanaFax UF750 Fuser Unit	30,000	22-90-63	121.55	➧	124.95	123.70
KX-PCR1	PanaFax UF750 Corona Wire	60,000	21-14-73	14.29	14.95	14.80	14.65
KX-P453	PanaFax UF766 Black Toner Cartridge	3,000	21-41-26	18.11	18.95	18.76	18.57
KX-PDM5	PanaFax UF766 Drum Unit	12,000	21-67-53	66.86	69.95	69.25	68.56
KX-PFS5	PanaFax UF766 Fuser Unit	90,000	21-41-57	101.33	➧	104.95	103.90
KX-PCR3	PanaFax UF766 Corona Wire	90,000	21-71-92	38.18	39.95	39.55	39.15
KX-PDP4	PanaFax UF766 Developer Unit	90,000	22-77-73	101.33	➧	104.95	103.90

***B/W = 350 pages, Colour = 90 pages**

OTHER ITEMS

FOR FAX MACHINES SEE PAGES 464–473

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRINTER SUPPLIES

QMS





LASER

PART NO.	DESCRIPTION	PAGE YIELD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
QMS MAGICOLOR/PLUS/LX/COLORSCRIPT LASER 1000							
1710059-001	MagiColor/+/LX Black Toner Cartridge	4,000	21-73-81	37.23	38.95	38.56	38.17
1710059-012	MagiColor/+/LX Cyan Toner Cartridge	3,000	21-73-98	74.51	77.95	77.17	76.40
1710059-013	MagiColor/+/LX Magenta Toner Cartridge	3,000	21-74-08	76.42	79.95	79.15	78.36
1710059-014	MagiColor/+/LX Yellow Toner Cartridge	3,000	21-74-15	75.25	77.95	77.17	76.40
1710060-002A	MagiColor/+/LX Cyan Developer	15,000	21-74-39	117.25	➧	119.95	118.75
1710060-003A	MagiColor/+/LX Magenta Developer	15,000	21-74-46	118.70	➧	122.95	121.72
1710060-004A	MagiColor/+/LX Yellow Developer	15,000	21-74-53	120.64	➧	124.95	123.70
1710061-001A	MagiColor/+/LX Fuser Oil and Cleaning Unit	3,000	21-99-49	19.07	19.95	19.75	19.55
1710063-061A	MagiColor/+/LX Waste Toner Kit (**5 pack**)	6,000	21-99-56	6.90	7.75	7.52	7.29
QMS MAGICOLOR CX SUPPLIES							
1710120-001	MagiColor CX Black Toner Cartridge	4,000	22-36-67	35.32	36.95	36.58	36.21
1710144-002	MagiColor CX Cyan Toner Cartridge	3,000	22-36-74	86.63	89.95	89.05	88.16
1710144-003	MagiColor CX Magenta Toner Cartridge	3,000	22-36-81	86.63	89.95	89.05	88.16
1710144-004	MagiColor CX Yellow Toner Cartridge	3,000	22-36-98	89.80	93.95	93.01	92.08
1710121-001	MagiColor CX Black Developer	30,000	22-37-08	122.57	➧	126.95	125.68
1710121-003	MagiColor CX Magenta Developer	15,000	22-37-22	116.68	➧	119.95	118.75
1710061-001A	MagiColor CX Fuser Oil	3,000	22-37-46	24.33	25.45	25.20	24.94
1710063-001A	MagiColor CX Wash Toner Kit	6,000	22-37-53	9.32	9.75	9.65	9.56
1710122-001	MagiColor CX OPC Belt Cart	50,000	22-37-60	202.70	➧	209.95	207.85
QMS MAGICOLOR 330							
1710322-001	Black Toner	4,500	23-28-78	38.18	39.95	39.55	39.15
1710322-002	Cyan Toner	6,000	23-28-85	85.98	89.95	89.05	88.16
1710322-003	Yellow Toner	6,000	23-28-92	85.98	89.95	89.05	88.16
1710322-004	Magenta Toner	6,000	23-29-02	85.98	89.95	89.05	88.16

QMS PRINTER SUPPLIES CONTINUED ON 998

OTHER ITEMS

FOR DOT MATRIX PRINTERS SEE PAGES 441–451
FOR CLEANING PRODUCTS SEE PAGES 534–540

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRINTER SUPPLIES

QMS





LASER

PART NO.	DESCRIPTION	PAGE YIELD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
QMS Magicolor CX2/EX2							
1710188-004	Black Toner Cartridge	10,000	22-96-85	95.53	99.95	98.95	97.96
1710188-004	Black Toner Cartridge (**5 pack**)	50,000	04-18-00	460.48	◗	476.95	472.18
1710188-003	Cyan Toner Cartridge	6,000	22-96-92	88.84	92.95	92.02	91.10
1710188-003	Cyan Toner Cartridge (**5 pack**)	30,000	04-53-70	421.86	◗	436.95	432.58
1710188-002	Magenta Toner Cartridge	6,000	22-97-02	88.84	92.95	92.02	91.10
1710188-002	Magenta Toner Cartridge (**5 pack**)	30,000	04-94-93	390.73	◗	436.95	419.47
1710188-001	Yellow Toner Cartridge	6,000	22-97-19	90.75	94.95	94.00	93.06
1710188-001	Yellow Toner Cartridge (**5 pack**)	30,000	04-17-35	390.73	◗	436.95	419.47
2600612-100	Fuser Oil/Clean Kit	12,000	23-94-80	60.21	62.99	62.36	61.74
2600612-100	Fuser Oil (**5 pack**)	60,000	04-70-39	279.16	◗	286.98	284.11
1710190-001	Waste Toner Kit	12,000	22-97-33	12.38	12.95	12.82	12.69
1710190-001	Waste Toner Kit (**5 pack**)	60,000	04-22-77	55.39	57.95	57.37	56.80
1710193-001	OPC Belt-Cartridge	50,000	22-97-40	202.70	◗	209.95	207.85
1710193-001	OPC Belt-cartridge (**5 pack**)	250,000	04-49-65	971.79	◗	999.00	989.01
QMS Magicolor 6100							
1710362-001	Black Toner Cartridge	10,000	23-53-67	95.53	99.95	98.95	97.96
1710362-002	Cyan Toner Cartridge	6,000	23-94-89	135.12	◗	139.95	138.55
1710362-003	Magenta Toner Cartridge	6,000	23-70-33	135.12	◗	139.95	138.55
1710362-004	Yellow Toner Cartridge	6,000	23-17-33	135.12	◗	139.95	138.55
1710365-001	OPC Belt	120,000	23-22-79	267.39	◗	276.95	274.18
1710366-001	Oil Bottle	1,200	23-49-58	34.36	35.95	35.59	35.23
1710367-001	Fuser Cleaning Roller	1,800	23-12-59	17.16	17.95	17.77	17.59
1710368-001	Waste Toner Bottle	20,000	23-08-47	13.33	13.95	13.81	13.67
QMS 3260							
1710307-001	Black Toner Cartridge	23,000	23-53-72	168.91	◗	174.95	173.20
1710308-002	Maintenance Kit	—	23-94-93	305.04	◗	315.95	312.79

OTHER ITEMS

FOR INKJET PRINTERS SEE PAGES 374–399
FOR LASER PRINTERS SEE PAGES 404–437
FOR PRINT SERVERS SEE PAGES 705–714

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

QMS PRINTER SUPPLIES CONTINUED FROM 998

PRINTER SUPPLIES — QMS

LASER

PART NO.	DESCRIPTION	PAGE YIELD	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
LOW END (WORKGROUP) LASER SUPPLIES							
1730500-001	DeskLaser 600 Black Toner Catridge	3,000	22-96-78	55.39	57.95	57.37	56.80
8R644012-000	860/860+/1660 Black Toner Cartridge	7,500	21-64-47	85.98	89.95	89.05	88.16
1710171-001	2060 Black Toner Cartridge	10,000	22-69-49	115.81	◗	119.95	118.75
1710171-001	2060 Black Toner Cartridge (**5 pack**)	50,000	04-90-23	583.28	◗	592.95	589.39

PRINTER SUPPLIES — SHARP

LASER

PART NO.	DESCRIPTION	PAGE YIELD	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
JX9200							
JX92TC	JX9200 Toner Cartridge	5,000	22-19-51	33.41	34.95	34.60	34.25
JX92TC	JX9200 Toner Cartridge (**5 pack**)	25,000	04-27-07	173.74	◗	179.95	178.15
JX92DR	JX9200 Drum Unit	30,000	22-19-75	47.74	49.95	49.45	48.96
JX9400/9460/9600/9660							
JX96DC	JX9400/9460/9600/9660 Developer & Toner Kit	15,000	22-02-82	59.21	61.95	61.33	60.72
JX96DC	JX9400/9460/9600/9660 Developer & Toner Kit (**5 pack**)	75,000	04-54-12	297.32	◗	307.95	304.87
JX96DR	JX9400/9460/9600/9660 Drum Unit	30,000	22-02-99	63.99	66.95	66.28	65.62
JX96DR	JX9400/9460/9600/9660 Drum Unit (**5 pack**)	150,000	04-90-30	318.56	◗	329.95	326.65
JX9500							
JX95TC	JX9500 Toner Cartridge	3,000	21-06-32	19.55	20.45	20.25	20.04
JX95TC	JX9500 Toner Cartridge (**5 pack**)	15,000	04-27-14	87.11	90.45	89.55	88.65
JX95DC	JX9500 Developer Unit	25,000	21-06-49	63.04	65.95	65.29	64.64
JX95DC	JX9500 Developer Unit (**5 pack**)	125,000	04-90-47	292.96	◗	318.95	309.38
JX95DR	JX9500 Drum Unit	50,000	21-06-56	71.64	74.95	74.20	73.46
JX9700							
JX97TC	JX9700 Toner Cartridge	5,000	22-20-15	32.45	33.95	33.61	33.27
JX97DC	JX9700 Developer Unit	30,000	22-20-22	95.53	99.95	98.95	97.96
JX97DR	JX9700 Drum Unit	60,000	22-20-39	75.46	78.95	78.16	77.38
JX97FG	JX9700 Fuser Unit	—	22-68-15	95.44	99.85	98.85	97.86

FAX

F015CR	FO-1460/1660 Thermal Imaging Film	470	68-54-70	13.91	14.55	14.40	14.26
FO26DC	FO-2600/2700 Imaging Cartridge	–	81-23-39	37.23	38.95	38.56	38.17

OTHER ITEMS

FOR INKJET PRINTERS SEE PAGES 374–399
FOR LASER PRINTERS SEE PAGES 404–437
FOR PRINT SERVERS SEE PAGES 705–714

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRINTER SUPPLIES — Tally

LASER

PART NO.	DESCRIPTION	PAGE YIELD	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
TALLY MT906							
391946	MT906 Toner Kit	3,000	20-86-75	8.27	8.65	8.56	8.48
730238	MT906 Drum and Counter Kit	7,500	21-05-53	68.77	71.95	71.23	70.52
730237	MT906 Developer Kit	100,000	21-04-98	100.89	▶	104.50	103.46
TALLY MT908							
391946	MT908 Toner Kit	3,000	20-86-75	8.27	8.65	8.56	8.48
392078	MT908 Drum and Counter Kit	10,000	21-20-49	55.39	57.95	57.37	56.80
TALLY MT910							
389001	MT910 Toner Cartridge	5,000	20-45-76	8.55	8.95	8.86	8.77
389002	MT910 OPC Drum Unit	15,000	20-45-83	76.42	79.95	79.15	78.36
389003	MT910 Developer Unit	50,000	20-45-90	87.46	91.50	90.59	89.68
TALLY T9005							
044547	T9005 Toner Kit	2,500	21-62-41	12.38	12.95	12.82	12.69
044548	T9005 Drum/Developer Kit	15,000	21-62-58	130.48	▶	135.15	133.80
TALLY T9006							
044876	T9006 Process Unit	3,000	22-98-36	50.61	52.95	52.42	51.90
TALLY T9008							
044632	T9008 Process Kit	10,000	22-28-02	109.05	▶	112.95	111.82
TALLY T9012							
044781	T9012 Process Unit	10,000	22-70-41	116.68	▶	119.95	118.75
TALLY T9014/90140D							
044898A	T9014/T9014D Toner Kit (**2 pack**)	10,000	22-78-38	50.99	52.95	52.42	51.90
TALLY T9017							
044572	T9017 Process Unit	16,000	21-62-96	159.25	▶	164.95	163.30
TALLY T9108/9208							
044726	T9108/9208 Process Unit	6,000	22-32-03	63.04	65.95	65.29	64.64
TALLY T9104/8104+/8004							
044956	Black Toner Cartridge	10,000	23-06-43	88.84	92.95	92.02	91.10
044953	Cyan Toner Cartridge	6,000	23-06-50	76.42	79.95	79.15	78.36
044954	Magenta Toner Cartridge	6,000	23-06-67	76.42	79.95	79.15	78.36
044955	Yellow Toner Cartridge	6,000	23-06-74	76.42	79.95	79.15	78.36
044957	Drum Unit	50,000	23-06-81	183.39	▶	189.95	188.05
044958	Fuser Oil and Cleaning Kit	12,000	23-06-98	52.92	54.95	54.40	53.86

TALLY PRINTER SUPPLIES CONTINUED ON 1001

OTHER ITEMS
FOR PRINT SERVERS SEE PAGES 705–714

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

TALLY PRINTER SUPPLIES CONTINUED FROM 1000

PRINTER SUPPLIES

Tally

LASER

PART NO	DESCRIPTION	PAGE YIELD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
T9112/T9116D							
044898	Black Toner Cartridge	5,000	23-07-08	51.57	53.95	53.41	52.88
044899	Drum Unit	40,000	23-07-15	135.17	◆	138.95	137.56
T9030/T9031/T9031D/T9040D							
731200	Black Twin Toner	—	23-13-50	60.62	62.95	62.32	61.70

RIBBONS



PART NO	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
394086	MT83/84 Re-inking Black Ribbon	21-57-78	2.72	2.85	2.82	2.79
394086	MT83/84 Re-inking Black Ribbon (**5 pack**)	04-54-74	13.00	13.50	13.37	13.23
052220	MT130/150/2033 Black Fabric Ribbon	21-12-46	2.96	3.10	3.07	3.04
044702	MT135 Black Ribbon	22-14-18	4.16	4.35	4.31	4.26
052148	MT131 Black Fabric Ribbon	21-12-60	3.20	3.35	3.32	3.28
025960	MT140/145/180/280/290 Black Ribbon	20-56-30	2.86	2.99	2.96	2.93
025960	MT140/145/180/280/290 Black Ribbon (**10 pack**)	04-54-98	25.76	26.95	26.68	26.41
023358	MT230/330/340/400/460/490/2056/T2060 Longlife Black Ribbon	20-56-47	7.41	7.75	7.67	7.60
023358	MT230/205/2055/T2060/T2070 Longlife Black Ribbon(**10 pack**)	04-55-08	72.71	75.50	74.75	74.00
030296	MT691/6082/6092/6045/6090/6140/6141 Black Ribbon	22-70-58	15.53	16.25	16.09	15.93
707201	MT420/440/460/490/1000/1612/1602 Black Ribbon	20-56-61	1.92	2.15	2.09	2.02
080294	MT645/660/661/690/6000/6090/6140/6141 Black Ribbon	20-56-85	7.60	7.95	7.87	7.79
080294	MT645/6090/6140/6141 Black Ribbon (**10 pack**)	04-55-15	74.11	76.95	76.18	75.42
082285	MT6180 Black Ribbon	23-28-30	32.45	33.95	33.61	33.27
044829	T2030 Black Ribbon	25-43-51	6.64	6.95	6.88	6.81
044830	T2130 Black Ribbon	23-13-98	7.41	7.75	7.67	7.60
060426	T2040 Black Ribbon	23-13-67	3.01	3.15	3.12	3.09
060425	T2140 Black Ribbon	23-13-74	3.30	3.45	3.42	3.38
060097	T2170 Black Ribbon	23-17-28	9.51	9.95	9.85	9.75

OTHER ITEMS

FOR PRINTER STANDS SEE PAGE 489
FOR CONTINUOUS LISTING PAPER SEE PAGES 1019–1021

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

PRINTER SUPPLIES

Tektronix



TEKTRONIX OFFERS FREE BLACK INK FOR THE 340/350/360/840/850.
*0161831OO Cat No 01-08-38.
*0161604OO Cat No 01-17-62
*0161307O1 Cat No 01-30-88



INKJET

MFG. REF.	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
PHASER 140 INKJET						
016-1333-00	Phaser 140 Black Ink (14ml)	21-78-17	8.75	9.15	9.06	8.97
016-1334-00	Phaser 140 Cyan Ink (9ml)	21-78-24	6.36	6.65	6.58	6.52
016-1335-00	Phaser 140 Magenta Ink (9ml)	21-78-31	6.36	6.65	6.58	6.52
016-1336-00	Phaser 140 Yellow Ink (9ml)	21-78-48	6.36	6.65	6.58	6.52
PHASER 300I/III PXI SOLID-INK						
016-1123-00	Phaser 300I/III Black Colorstix (**8 pack**)	22-48-79	106.64	♦	110.45	109.35
016-1124-00	Phaser 300I/III Cyan Colorstix (**8 pack**)	22-48-86	66.86	69.95	69.25	68.56
016-1125-00	Phaser 300I/III Magenta Colorstix (**8 pack**)	22-48-93	66.86	69.95	69.25	68.56
016-1126-00	Phaser 300I/III Yellow Colorstix (**8 pack**)	22-49-03	66.71	71.55	69.65	67.80
PHASER 340/340+/350/360 SOLID INK						
016-1307-01	Phaser 340/340+/350/350Z/360 Black Colorstix 3 sticks	—				
016-1756-00	Phaser 340/340+/350/350Z/360 2 Cyan Colorstix+1 Free Black (**2,200 Pages***)	23-36-81	47.74	49.95	49.45	48.96
016-1757-00	Phaser 340/340+/350/350Z/360 2 Magenta Colorstix+1 Free Black (**2,200 Pages***)	23-98-34	47.74	49.95	49.45	48.96
016-1758-00	Phaser 340/340+/350/350Z/360 2 Yellow Colorstix+1 Free Black (**2,200 Pages***)	23-53-54	47.74	49.95	49.45	48.96
016-1759-00	Phaser 340/340+/350/350Z/360 5 Cyan Colorstix+2 Free Black (**2,200 Pages***)	23-76-57	109.05	♦	112.95	111.82
016-1760-00	Phaser 340/340+/350/350Z/360 5 Magenta Colorstix+2 Free Black (**2,200 Pages***)	23-64-65	109.05	♦	112.95	111.82
016-1761-00	Phaser 340/340+/350/350Z/360 5 Yellow Colorstix+2 Free Black (**2,200 Pages***)	23-76-71	108.08	♦	111.95	110.83
436-0294-03	Phaser 340 Maintenance Tray	21-85-17	150.00	♦	150.00	150.00
PHASER 380 SOLID-INK						
016-1540-00	Phaser 380 Black Colorstix (**2 pack**)	22-89-61	47.74	49.95	49.45	48.96
016-1541-00	Phaser 380 Cyan Colorstix (**2 pack**)	22-89-78	62.08	64.95	64.30	63.66
016-1542-00	Phaser 380 Magenta Colorstix (**2 pack**)	22-89-85	62.08	64.95	64.30	63.66
016-1543-00	Phaser 380 Yellow Colorstix (**2 pack**)	22-89-92	62.08	64.95	64.30	63.66

Orders for FREE Black Ink can only be fulfilled as part of an order with a minimum value of £49.

TEKTRONIX PRINTER SUPPLIES CONTINUED ON 1003

OTHER ITEMS

FOR INKJET PRINTERS SEE PAGES 374–399

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

TEKTRONIX PRINTER SUPPLIES CONTINUED FROM 1002

LASER PRINTER SUPPLIES

Tektronix

INKJET

TEKTRONIX OFFERS FREE BLACK INK FOR THE 340/350/360/840/850.
*016183100 Cat No 01-08-38. *016160400 Cat No 01-17-62
*016130701 Cat No 01-30-88

MFG. REF.	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
PHASER 600 SOLID INK						
016-1453-00	Phaser 600 Black Colorstix (**48 pack**)	22-90-01	173.11	♦	177.95	176.17
016-1454-00	Phaser 600 Cyan Colorstix (**48 pack**)	22-90-18	173.11	♦	177.95	176.17
016-1455-00	Phaser 600 Magenta Colorstix (**48 pack**)	22-90-25	173.11	♦	177.95	176.17
016-1456-00	Phaser 600 Yellow Colorstix (**48 pack**)	22-90-32	173.11	♦	177.95	176.17
016-1472-00	Phaser 600 Fuser/Cutter Kit	22-90-49	138.06	♦	143.00	141.57
016-1400-00	Phaser 600 Cleaning Kit	22-90-56	52.15	54.50	54.25	54.00
PHASER 840N/840DP/840DX/840 DESIGNER EDITION SOLID INK						
016-1605-00	Phaser 840 Cyan ColorStix Ink (5 Sticks Cyan+2 Sticks Black)	23-26-96	115.81	♦	119.95	118.75
016-1606-00	Phaser 840 Magenta ColorStix Ink (5 Sticks Magenta+2 Sticks Black)	23-27-06	119.67	♦	123.95	122.71
016-1607-00	Phaser 840 Yellow ColorStix Ink (5 Sticks Yellow+2 Sticks Black)	23-27-13	115.81	♦	119.95	118.75
016-1604-00	Phaser 840 Black ColorStix (**3 pack**)	01-17-62				
016-1582-00	Phaser 840 Cyan ColorStix (2 colour + 1 black)	23-17-98	53.48	55.95	55.39	54.84
016-1583-00	Phaser 840 Magenta ColorStix (2 colour + 1 black)	23-31-06	53.48	55.95	55.39	54.84
016-1584-00	Phaser 840 Yellow ColorStix (2 colour + 1 black)	23-53-73	53.48	55.95	55.39	54.84
016-1727-00	Phaser 840 Maintenance Roller	23-27-20	69.73	72.95	72.22	71.50
016-1822-00	Phaser 840 Standard Maintenance Kit	23-53-69	55.39	57.95	57.37	56.80
PHASER 850						
016-1825-00	Phaser 850 Cyan ColorStix Ink (5 cyan + 2 Black)	23-31-05	119.67	♦	123.95	122.71
016-1826-00	Phaser 850 Magenta ColorStix Ink (5 magenta + 2 Black)	23-53-68	119.67	♦	123.95	122.71
016-1827-00	Phaser 850 Yellow ColorStix Ink (5 yellow + 2 Black)	23-94-90	119.67	♦	123.95	122.71
016-1828-00	Phaser 850 Cyan ColorStix Ink (2 cyan + 1 Black)	23-17-34	54.43	56.95	56.38	55.82
016-1829-00	Phaser 850 Magenta ColorStix (2 magenta + 1 Black)	23-70-34	54.43	56.95	56.38	55.82
016-1830-00	Phaser 850 Yellow ColorStix (2 yellow + 1 Black)	23-94-91	54.43	56.95	56.38	55.82
016-1834-00	Phaser 850 Extended Maintenance Kit	23-17-35	93.62	97.95	96.97	96.00
016-1822-00	Phaser 850 Standard Maintenance Kit	23-53-69	55.39	57.95	57.37	56.80
016-1845-00	Phaser 850 Cleaning Kit	23-12-60	4.73	4.95	4.90	4.85
016-1831-00	Phaser 850 Black ColorStix Ink (3 Blacks)	01-08-38				

Orders for FREE Black Ink can only be fulfilled as part of an order with a minimum value of £49.

OTHER ITEMS

FOR LASER PRINTERS SEE PAGES 404–437

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

TEKTRONIX PRINTER SUPPLIES CONTINUED FROM 1003

PRINTER SUPPLIES

Tektronix®

LASER

MFG. REF.	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
PHASER 740L/740N/740DP/740DX COLOR LASER						
016-168-400	Phaser 740 Black Toner Cartridge (6,000 pages*)	23-25-24	52.52	54.95	54.40	53.86
016-168-500	Phaser 740 Cyan Toner Cartridge (5,000 pages*)	23-25-31	109.87	◗	112.95	111.82
016-168-600	Phaser 740 Magenta Toner Cartridge (5,000 pages*)	23-25-48	109.87	◗	112.95	111.82
016-168-700	Phaser 740 Yellow Toner Cartridge (5,000 pages*)	23-25-55	109.87	◗	112.95	111.82
016-165-600	Phaser 740 High Capacity Black Toner (12,000 pages*)	23-16-97	72.59	75.95	75.19	74.44
016-165-700	Phaser 740 High Capacity Cyan Toner (10,000 pages*)	23-17-07	164.08	◗	169.95	168.25
016-165-800	Phaser 740 High Capacity Magenta Toner (10,000 pages*)	23-17-14	164.08	◗	169.95	168.25
016-165-900	Phaser 740 High Capacity Yellow Toner (10,000 pages*)	23-17-21	164.08	◗	169.95	168.25
016-166-100	Phaser 740 Fuser, 220v (60,000 pages*)	23-25-62	144.77	◗	149.95	148.45
016-166-300	Phaser 740 Fuser Roll (15,000 pages*)	23-25-79	45.21	46.95	46.48	46.02
016-166-200	Phaser 740 Color Imaging Kit (60,000 pages*)	23-25-86	140.91	◗	145.95	144.49
016-166-400	Phaser 740 Transfer Kit (80,000 pages*)	23-25-93	27.67	28.95	28.66	28.37
016-166-500	Phaser 740 Main Charge Grid (30,000 pages*)	23-26-03	19.07	19.95	19.75	19.55
PHASER 780N/780GN/780P/A3 LASER						
016-167-800	Phaser 780 Black Toner Cartridge (4,500 pages*)	23-26-10	65.90	68.95	68.26	67.58
016-167-900	Phaser 780 Cyan Toner Cartridge (5,900 pages*)	23-26-27	119.67	◗	123.95	122.71
016-168-000	Phaser 780 Magenta Toner Cartridge (5,900 pages*)	23-26-34	119.67	◗	123.95	122.71
016-168-100	Phaser 780 Yellow Toner Cartridge (5,900 pages*)	23-26-41	119.67	◗	123.95	122.71
016-186-400	Phaser 780 Color Imaging Kit (12,500 images*)	23-26-58	129.32	◗	133.95	132.61
016-186-600	Phaser 780 Fuser Roll Cartridge (20,000 images*)	23-26-65	47.74	49.95	49.45	48.96
016-171-700	Phaser 780 Hi-Duty Fuser Roll Cartridge	23-26-72	65.90	68.95	68.26	67.58
016-186-500	Imaging Unit Waste Cartridge (20,000 images*)	23-26-89	18.40	19.25	19.06	18.87

TEKTRONIX PRINTER SUPPLIES CONTINUED ON 1005

OTHER ITEMS

FOR LASER PRINTERS SEE PAGES 404–437

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

TEKTRONIX PRINTER SUPPLIES CONTINUED FROM 1004

PRINTER SUPPLIES

Tektronix®

LASER

MFG. REF.	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
PHASER 540/540+ COLOUR LASER							
016-1319-00	Phaser 540/540+ Black Toner Cartridge	22-03-92	126.22	◗	129.75	128.45	
016-1320-00	Phaser 540/540+ Cyan Toner Cartridge	22-04-02	152.50	◗	157.95	156.37	
016-1321-00	Phaser 540/540+ Magenta Toner Cartridge	22-04-19	148.78	◗	152.95	151.42	
016-1322-00	Phaser 540/540+ Yellow Toner Cartridge	22-04-26	148.78	◗	152.95	151.42	
016-1457-00	Phaser 540/540+ Imaging Kit	22-04-33	507.79	◗	525.95	520.69	
016-1354-00	Phaser 540/540+/550 Fuser Unit	22-89-23	430.55	◗	445.95	441.49	
PHASER 550/550EF COLOUR LASER							
016-1417-00	Phaser 550/550EF Black Toner Cartridge	22-32-89	147.67	◗	152.95	151.42	
016-1418-00	Phaser 550/550EF Cyan Toner Cartridge	22-32-96	193.05	◗	199.95	197.95	
016-1419-00	Phaser 550/550EF Magenta Toner Cartridge	22-33-06	190.68	◗	197.50	195.53	
016-1420-00	Phaser 550/550EF Yellow Toner Cartridge	22-33-13	194.02	◗	199.45	197.46	
PHASER 560 COLOUR LASER							
016-1536-00	Phaser 560 Black Toner Cartridge	88-89-54	73.55	76.95	76.18	75.42	
016-1537-00	Phaser 560 Cyan Toner Cartridge	88-89-85	198.84	◗	205.95	203.89	
016-1538-00	Phaser 560 Magenta Toner Cartridge	88-89-78	210.91	◗	218.45	216.27	
016-1539-00	Phaser 560 Yellow Toner Cartridge	88-89-61	198.84	◗	205.95	203.89	
016-1535-00	Phaser 560 Fuser Unit	22-89-30	133.19	◗	137.95	136.57	
016-1523-00	Phaser 560 Imaging Kit	22-89-47	267.39	◗	276.95	274.18	
016-1533-00	Phaser 560 Transfer Kit	22-89-54	28.63	29.95	29.65	29.35	
PHASER 750							
Z750SS	Printer Starter Kit	23-18-07	438.67	◗	450.95	446.44	NEW
016180300	High Capacity Black Toner Cartridge	23-31-18	68.33	70.95	70.24	69.54	NEW
016180000	High Capacity Cyan Toner Cartridge	23-53-85	158.51	◗	162.95	161.32	NEW
016180100	High Capacity Magenta Toner Cartridge	23-94-97	158.51	◗	162.95	161.32	NEW
016180200	High Capacity Yellow Toner Cartridge	23-17-41	158.51	◗	162.95	161.32	NEW
016180700	Low Capacity Black Toner Cartridge	23-70-40	53.88	55.95	55.39	54.84	NEW
016180400	Low Capacity Cyan Toner Cartridge	23-22-84	113.77	◗	116.95	115.78	NEW
016180500	Low Capacity Magenta Toner Cartridge	23-49-62	113.77	◗	116.95	115.78	NEW
016180600	Low Capacity Yellow Toner Cartridge	23-12-66	113.77	◗	116.95	115.78	NEW
016184100	Imaging Kit	23-39-07	141.98	◗	145.95	144.49	NEW
016184300	Fuser Roll	23-27-83	44.88	46.95	46.48	46.02	NEW
016184200	Transer Kit	23-36-90	25.76	26.95	26.68	26.41	NEW

OTHER ITEMS

FOR LASER PRINTERS SEE PAGES 404–437

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRINTER SUPPLIES — Tektronix

THERMAL

MFG. REF.	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
016-1263-00	Phaser 200 3 Colour Roll – 342 copies	21-78-93	144.89	◗	148.95	147.46
016-1262-10	Phaser 200 3 Colour Sample Transfer Roll – 50 copies	21-79-03	56.87	59.50	58.91	58.32
016-1222-00	Phaser 200 Color Coat Roll for Laser Paper – 214 copies	21-79-10	113.93	◗	118.00	116.82
016-1303-00	Phaser 440 3 Colour Roll	22-04-57	134.64	◗	139.45	138.06
016-0906-01	Phaser II 3 Colour Roll – 342 copies	21-78-55	136.14	◗	139.95	138.55
016-0898-00	Phaser II 4 Colour Roll – 275 copies	21-78-62	150.73	◗	154.95	153.40

PRINTER SUPPLIES — XEROX



LASER

PART NO.	DESCRIPTION	PAGE YIELD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
6R00282	4030 Black Toner Cartridge	12,000	22-40-51	57.30	59.95	59.35	58.76
13R33	4030 Drum Unit	20,000	22-92-83	154.62	◗	158.95	157.36
6R00342	4213 Black Toner Cartridge (**2 pack**)	6,500	22-48-31	45.83	47.95	47.47	47.00
6R0039	4213 Fuser Unit	50,000	22-48-55	135.12	◗	139.95	138.55
13R00049	4213 Drum Unit	20,000	22-48-48	110.98	◗	114.95	113.80
113R00005	4505/4510 Black Toner Cartridge	5,000	22-48-62	66.86	69.95	69.25	68.56
113R265	4508 Black Toner Cartridge	5,000	22-75-39	66.86	69.95	69.25	68.56
106R88	4512 Black Toner Cartridge	15,000	22-75-46	79.29	82.95	82.12	81.30
113R95	4517 N17/N40 Black Toner Cartridge	10,000	22-75-60	85.98	89.95	89.05	88.16
108R93	4517 N17/N40 Fuser Unit	200,000	22-75-77	143.81	◗	148.95	147.46
113R110	4520 Black Toner Cartridge	14,000	22-91-28	170.65	◗	176.75	174.98

XEROX PRINTER SUPPLIES CONTINUED ON 1007

OTHER ITEMS

FOR LASER PRINTERS SEE PAGES 404–437

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

XEROX PRINTER SUPPLIES CONTINUED FROM 1006

PRINTER SUPPLIES

XEROX

LASER

PART NO.	DESCRIPTION	PAGE YIELD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
6R90219	4900/15 Black Toner Cartridge	4,000	22-40-75	23.85	24.95	24.70	24.45	
6R90220	4900/15 Yellow Toner Cartridge	4,000	22-40-82	94.58	98.95	97.96	96.98	
6R90221	4900/15 Magenta Toner Cartridge	4,000	22-40-99	94.58	98.95	97.96	96.98	
6R90222	4900/15 Cyan Toner Cartridge	4,000	22-41-09	94.58	98.95	97.96	96.98	
4900/15TON	4900/15 Colour Toner Pack*	4,000	11-42-57	311.61	➧	322.75	319.52	
4900/15DEV	4900/15 Colour Developer Pack*	4,000	11-42-64	416.15	➧	420.00	417.48	
13R00543	4900/15 OPC Belt	50,000	22-41-54	175.05	➧	179.95	178.15	
8R4097	4900/15/20/25 Fuser Oil & Pad	3,000	11-42-71	10.47	10.95	10.84	10.73	
8R4099	4900/15/20/25 Waste Toner (**5 pack**)	–	11-42-88	6.21	6.50	6.44	6.37	
8R7655	4900/15/20/25 Fuser Unit	60,000	11-42-95	282.05	➧	289.95	287.05	
6R90237	4920/25 Black Toner Cartridge	4,000	22-41-92	19.21	19.95	19.75	19.55	
6R90238	4920/25 Cyan Toner Cartridge	4,000	22-42-02	102.29	➧	105.95	104.89	
6R90239	4920/25 Magenta Toner Cartridge	4,000	22-42-19	102.29	➧	105.95	104.89	
6R90240	4920/25 Yellow Toner Cartridge	4,000	22-42-26	102.29	➧	105.95	104.89	
13R538	4920/25 OPC Belt	50,000	22-93-00	172.77	➧	178.95	177.16	
4920/25TON	4920/25 Toner Colour Toner Pack*	4,000	22-76-94	299.56	➧	307.95	304.87	
4920/25DEV	4920/25 Developer Colour Developer Pack*	4,000	22-77-04	399.76	➧	410.95	406.84	
113R184	N24/N32/N40 Black Toner Cartrdige	23,000	22-91-35	161.43	➧	165.95	164.29	
109R349	N24/N32/N40 Maintenance Kit	300,000	22-93-17	411.24	➧	425.95	421.69	
108R00158	N24/N32/N40 Stapler Cartridge Kit (**3 pack**)	15,000	23-00-52	51.57	53.95	53.41	52.88	
4920/25DEV	4920/25 Developer Kit (**5 pack**)	–	22-77-04	399.76	➧	410.95	406.84	
113R43	DocuPrint N2025/2825 Black Toner Cartridge	–	23-17-40	113.88	➧	117.95	116.77	NEW
109R482	DocuPrint N2025/2825 Maintenance Kit	–	23-70-39	212.36	➧	219.95	217.75	NEW
113R445	DocuPrint N2125 Black Toner Cartridge	10,000	23-22-83	82.15	85.95	85.09	84.24	NEW
113R446	DocuPrint N2125 Black Toner Cartridge	15,000	23-49-61	103.26	➧	106.95	105.88	NEW
108R329	DocuPrint N2125 Maintenance Kit	–	23-12-65	161.19	➧	166.95	165.28	NEW
108R330	DocuPrint N2125 Feed Roll	–	23-08-52	26.72	27.95	27.67	27.39	NEW
109R487	DocuPrint N24/32/40/3225 Maintenance Kit	–	23-39-06	331.67	➧	340.95	337.54	NEW

* Includes 2 FREE Blacks

XEROX PRINTER SUPPLIES CONTINUED ON 1008

OTHER ITEMS

FOR LASER PRITERS SEE PAGES 404–437
FOR INKJET PRINTERS SEE PAGES 374–399

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

XEROX PRINTER SUPPLIES CONTINUED FROM 1007

PRINTER SUPPLIES

XEROX

LASER

PART NO.	DESCRIPTION	PAGE YIELD	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
6R856	DocuPrint C55 Black Toner Cartridge	5,000	22-83-87	10.94	11.45	11.34	11.22
6R857	DocuPrint C55 Cyan Toner Cartridge	4,000	22-83-94	38.18	39.95	39.55	39.15
6R858	DocuPrint C55 Magenta Toner Cartridge	4,000	22-84-04	38.18	39.95	39.55	39.15
6R859	DocuPrint C55 Yellow Toner Cartridge	4,000	22-84-11	38.18	39.95	39.55	39.15
5R90226	DocuPrint C55 Black Developer Unit	50,000	22-84-28	92.67	96.95	95.98	95.02
5R90216	DocuPrint C55 Colour Developer Unit	30,000	22-84-35	336.90	➧	348.95	345.46
13R549	DocuPrint C55 OPC Cartridge	50,000	22-93-24	140.72	➧	145.75	144.29
8R7886	DocuPrint C55 Fuser Unit	60,000	22-84-42	183.39	➧	189.95	188.05
113R926	P8e Black Toner Cartridge	5,000	23-16-04	67.36	69.95	69.25	68.56
113R311	P12 Black Toner Cartridge	6,000	23-16-11	66.86	69.95	69.25	68.56
113R398	P1202 Print Cartridge	6,000	23-94-81	66.86	69.95	69.25	68.56



INKJET

PART NO.	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
8R7638	XJ4C/XJC6C/DW450C/HomeCentre Black Turbo Ink Cartridge	22-93-31	31.49	32.95	32.62	32.29
8R7660	XJ4C/XJC6C/DW450C/HomeCentre Black Ink Tank	22-93-48	6.64	6.95	6.88	6.81
8R7660	XJ4C/XJC6C/DW450C/HomeCentre Black Ink Tank (**5-pack**)	06-24-57	28.63	29.95	29.65	29.35
8R7659	XJ4C/XJC6C/DW450C/HomeCentre Colour Printhead	22-93-55	28.41	29.95	29.70	29.50
8R7661	XJ4C/XJC6C/DW450C/HomeCentre Cyan Ink Tank	22-93-62	6.74	7.05	6.98	6.91
8R7662	XJ4C/XJC6C/DW450C/HomeCentre Magenta Ink Tank	22-93-79	6.64	6.95	6.88	6.81
8R7663	XJ4C/XJC6C/DW450C/HomeCentre Yellow Ink Tank	22-93-86	6.74	7.05	6.98	6.91
8R7638	XJC6C Colour Print Head	23-15-25	28.63	29.95	29.65	29.35
8R7881	XJ8C/C20 High Yield Black Cartridge	23-15-49	23.85	24.95	24.70	24.45
8R7978	XJ8C/C20 High Yield Black Cartridge (**3-pack**)	23-15-56	63.04	65.95	65.29	64.64
8R7880	XJ8C/C20 Standard Colour Cartridge	23-15-63	20.98	21.95	21.73	21.51
8R7882	XJ8C/C20 High Yield Colour Cartridge	23-15-70	23.85	24.95	24.70	24.45
8R7979	XJ8C/C20 High Yield Colour Cartridge (**3-pack**)	23-15-87	60.62	62.95	62.32	61.70
8R7883	XJ8C/C20 Optional photo Cartridge	23-15-94	23.85	24.95	24.70	24.45

OTHER ITEMS

FOR LASER PRINTERS SEE PAGES 404–437
FOR INKJET PRINTERS SEE PAGES 374–399

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRINTER SUPPLIES

Pelikan

INKJET

OEM CODE	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
CANON							
BC1-21BK	Canon BJC 4000 Black Cartridge	22-22-73	3.52	3.95	3.83	3.72	
BC1-21C	Canon BJC 4000 Tricolour Cartridge	22-22-80	4.86	5.45	5.29	5.13	
EPSON							
T003011	Epson Stylus Color 900 Black Cartridge	23-53-77	10.47	10.95	10.84	10.73	NEW
T005011	Epson Stylus Color 900 Tricolour Cartridge	23-53-78	14.29	14.95	14.80	14.65	NEW
SO 20047	Epson Stylus Color II/IIs/820 Black Cartridge	22-53-80	6.19	6.95	6.74	6.54	
SO 20049	Epson Stylus Color II/IIs/820 Tricolour Cartridge	22-53-97	8.55	8.95	8.86	8.77	
SO 20110	Epson Stylus Photo/Photo 700, 5 colour Cartridge	23-17-67	6.90	7.75	7.52	7.29	
SO 20187	Epson for Stylus Color 440/660, Black Cartridge	23-30-93	6.19	6.95	6.74	6.54	
SO 20191	Epson for Stylus Color 440/660/740, Tricolour Cartridge	23-53-49	7.53	8.45	8.20	7.95	
SO 20189	Epson for Stylus Color 740, Black Cartridge	23-94-77	6.46	7.25	7.03	6.82	

LASER

OEM CODE	DESCRIPTION	PAGE YIELD	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
BROTHER								
TN-100	Brother HL630/5000P Toner Kit	3,000	22-49-10	12.38	12.95	12.82	12.69	
CANON								
FX4	Canon LaserFax L800/900 Series Toner	4,500	23-11-09	45.83	47.95	47.47	47.00	
FX3	Canon LaserFax L300 Series Toner	5,500	22-99-08	35.58	36.95	36.58	36.21	
FX2	Canon LaserFax L500 Series Toner	4,000	22-49-27	34.36	35.95	35.59	35.23	
FX1	Canon LaserFax L700 Series Toner	3,500	22-49-34	41.05	42.95	42.52	42.10	
HEWLETT-PACKARD								
92295A	HP LaserJet II/IID/IIID (SX) Toner	4,000	22-50-74	24.80	25.95	25.69	25.43	
92298A	HP LaserJet 4/4M/4+/4M+ Toner	6,000	22-51-15	35.32	36.95	36.58	36.21	
92274A	HP LaserJet 4L/4ML/4P/4MP (PX) Toner	3,000	22-51-22	28.63	29.95	29.65	29.35	
C3906A	HP LaserJet 5L Toner	2,500	22-71-75	31.49	32.95	32.62	32.29	
C4092A	HP LaserJet 1100/1100A Black Cartridge	—	23-18-04	32.45	33.95	33.61	33.27	NEW
C4096A	HP LaserJet 2100 Series Black Cartridge	—	23-31-11	36.27	37.95	37.57	37.19	NEW
C3903A	HP LaserJet 5P/5MP Toner	4,000	22-51-46	40.86	42.75	42.32	41.90	
C3909A	HP LaserJet 5si Toner	15,000	23-07-22	76.42	79.95	79.15	78.36	
C4127A	HP LaserJet 4000 Toner	6,000	23-17-58	42.53	44.50	44.06	43.61	
C4127X	HP LaserJet 4000 Toner	10,000	23-17-59	58.26	60.95	60.34	59.74	

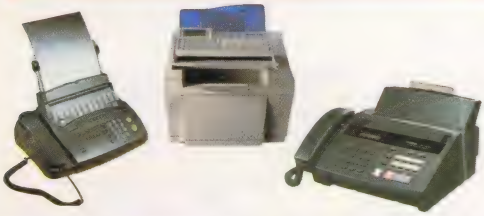
OTHER ITEMS

FOR INKJET PRINTERS SEE PAGES 374–399
FOR LASER PRINTERS SEE PAGES 404–437

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

FAX SUPPLIES — VARIOUS



Action's ever increasing range of fax machines brings with it an abundance of branded consumables for all your faxing needs. Below you can find a selection from our vast portfolio of fax consumables. More consumables are listed on the product pages (pp 475).

- For Canon Fax consumables see page 1073.
- For OKI Fax consumables see page 1074.
- For Panasonic Fax consumables see page 1075.

FAX SUPPLIES — brother

DESCRIPTION	PART NO	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
TN100 Toner	7833	21-70-51	16.68	17.45	17.28	17.10
TN200 Toner	9002	22-67-74	12.09	12.65	12.52	12.40
TN300 Toner	9153	22-86-93	12.19	12.75	12.62	12.50
DR100 Drum	7834	21-70-68	84.02	84.95	84.85	84.76
DR200 Drum	9001	22-67-81	72.36	72.95	72.85	72.75
DR300 Drum	9152	22-87-03	72.89	73.95	73.76	73.69
PC91 Ribbon	7253	23-53-58	13.72	14.35	14.21	14.06
PC95 Ribbon	7255	23-94-83	59.21	61.95	61.33	60.72
PC101 Ribbon Cartridge	8655	82-21-47	20.02	20.95	20.74	20.53
PC102 Ribbon RefilL	8656	79-68-40	33.41	34.95	34.60	34.25
PC104 Ribbon Refill	8657	83-91-16	60.17	62.95	62.32	61.70
PC201 Ribbon Cartridge	9483	88-64-82	17.16	17.95	17.77	17.59
PC202 Ribbon Refill	9484	23-18-93	20.50	21.45	21.24	21.02
PC204 Ribbon Refill	9485	67-32-79	36.27	37.95	37.57	37.19
PC301 Ribbon Refill	10092	23-19-03	11.42	11.95	11.83	11.71
PC302 Ribbon Refill	10093	25-71-76	17.63	18.45	18.27	18.08
PC304 Ribbon Refill	10094	23-19-27	28.63	29.95	29.65	29.35

FAX SUPPLIES — BT

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Image Cartridge for BF750	23-17-26	110.02	◆	113.95	112.81
Toner for BF850	78-63-55	115.81	◆	119.95	118.75
Drum for BF850	82-18-18	92.45	99.00	98.00	97.00
Toner for CF750/BF800	23-70-26	8.08	8.45	8.37	8.28
Drum for CF750/BF800	23-22-69	72.59	75.95	75.19	74.44
Ink Film (2) for Image 350/370	23-49-51	14.29	14.95	14.80	14.65
BT Ozone for BF800	77-22-59	15.25	15.95	15.79	15.63
BF-550 8 Re-fills, 1 Printhead	23-17-96	81.24	85.00	84.15	83.31

OTHER ITEMS

FOR INKJET PRINTERS SEE PAGES 374–399
FOR LASER PRINTERS SEE PAGES 404–437

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FAX SUPPLIES

Canon





INKJET

PART NO.	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
BUBBLEJET FAX B100/110/50							
BX3	B100/B110/B150/MP10 Black Ink Cartridge	82-29-96	16.56	16.95	16.78	16.61	
BX3	B100/B110/B150/MP10 Black Ink Cartridge **(5 pack)**	04-31-35	65.90	68.95	68.26	67.58	NEW
B200/2005/B60/70/75							
BC01	B200/2005/B60/70/75 Black Ink Cartridge	21-11-05	12.70	13.95	13.53	13.13	
BC01	B200/2005/B60/70/75 Multipack (**5 pack**)	05-51-89	57.30	59.95	59.35	58.76	
B320/340/360							
BX2	B320/340/360 Black Ink Cartridge	21-72-26	12.38	12.95	12.82	12.69	
MPC 20/30/50/70/80 Multi-Functional							
BC20	MPC30 Black Ink Cartridge	21-71-16	16.99	17.95	17.77	17.59	
BC21E	MPC30 Colour Ink Cartridge	21-71-23	26.65	26.95	26.82	26.77	
BCI-21BK	MPC30 Black Ink Tank	21-71-30	3.75	4.95	4.80	4.66	
BCI-21C	MPC30 Colour Ink Tank	21-71-47	9.51	9.95	9.85	9.75	

LASER

PART NO.	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
L250/L300/Multi L60/L90/L260i						
FX3	L300 Black Toner Cartridge	22-67-98	39.21	39.95	39.76	39.59
L500/L600						
FX2	L500/L600 Black Toner Cartridge	22-63-96	41.05	42.95	42.52	42.10
L700/760/770/780/790/3000/3300/9550						
FX1	L700/760/770/790/3000/3300I/9550 Black Toner Cartridge.	81-41-93	44.88	46.95	46.48	46.02
L800/900						
FX4	L800/900 Black Toner Cartridge	41-35-87	47.74	49.95	49.45	48.96
L910/920						
EPS/SX	L910/L920 Black Toner Cartridge	21-37-01	40.10	41.95	41.53	41.12

OTHER ITEMS

FOR INKJET FILM SEE PAGES 1027

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
▸▸ Save £££'s!
▸▸ Check live stock
▸▸ Track order status

Lower prices on-line at action.com

FAX SUPPLIES — NEC

PART NO	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
100000087	525 Series EP Cartridge	42-62-99	122.52	➧	125.95	124.69
100001835	415 Image Unit	23-17-81	68.33	70.95	70.24	69.54
100001296	555 Series Toner	87-64-16	24.99	25.95	25.69	25.43
100001505	555 Series Drum Unit	26-08-19	211.04	➧	216.95	214.78
50000509	770EP Cartridge	23-30-99	185.75	➧	190.95	189.04
50000344	461/462 EP Cartridge	23-53-59	92.67	96.95	95.98	95.02
100000092	430 EP Cartridge	23-94-84	159.25	➧	164.95	163.30

FAX SUPPLIES — OKI

PART NO	DESCRIPTION	QUANTITY	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
5061	OKIJet 740/740MF Cartridge	–	22-18-89	18.59	19.45	19.26	19.06
5068	OkiJet 740/740MF Tri-Colour Ink Cartridge	–	22-18-96	23.85	24.95	24.70	24.45
4452	OkiFax 110/150/2300 Black Toner Cartridge	2,500	21-07-04	15.34	16.05	15.89	15.73
4459	OkiFax 110/150/2300 DOC-IT EP Cartridge	12,000	21-07-11	126.41	➧	129.95	128.65
4851	OkiFax 1000/2200/2350/2450/2600/5200/5500 Black Toner Cartridge	2,000	20-00-82	13.05	13.65	13.51	13.38
4858	OkiFax 1000/2200/2350/2400/2450/2600/5200/5500 DOC-IT EP Cartridge	20,000	20-00-99	95.53	99.95	98.95	97.96
5089	OkiFax 4100 Black Toner Cartridge	1,000	22-33-75	11.42	11.95	11.83	11.71
5096	OkiFax 4100 DOC-IT EP	10,000	22-33-82	62.08	64.95	64.30	63.66
0079801	OkiFax 4500 Toner Cartridge	–	23-17-72	10.47	10.95	10.84	10.73
40709902	OkiFax 4500 EP Drum	–	23-30-95	49.18	51.45	50.94	50.43

FAX SUPPLIES — olivetti

PART NO	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
82070	OFX1200/2200	24-03-27	21.94	22.95	22.72	22.49
84433	OFX1200/2200 Refil Pack	23-17-89	6.64	6.95	6.88	6.81

OTHER ITEMS

FOR INKJET PRINTERS SEE PAGES 374–399
FOR LASER PRINTERS SEE PAGES 404–437

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

FAX SUPPLIES

Panasonic

PART NO.	DESCRIPTION	YIELD (PAGES)	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
PC-60BK	PanaFax UF305/315/322/332 Black Ink Cartridge	—	94-93-05	20.98	21.95	21.73	21.51	
PC-60BK	PanaFax UF305/315/322/332 Black Ink Cartridge (**5 pack**)	—	04-53-88	95.53	99.95	98.95	97.96	
UG-3502	PanaFax UF342/344 Black Print Cartridge	1,400	98-76-42	22.82	24.95	24.65	24.30	
UG-3503	PanaFax UF342/344 Colour Print Cartridge	*	99-77-42	33.13	35.95	34.95	33.95	
UG-3505	PanaFax UF342/344 Black Ink Refill	350	99-84-28	5.80	6.50	6.25	6.00	
UG-3505	PanaFax UF342/344 Black Ink Refill (**5 pack**)	1,750	04-53-95	29.10	30.45	30.15	29.84	
UG-3504	PanaFax UF342/344 Colour Ink Refill	90	99-84-11	13.29	14.75	14.50	14.30	
UG-3313	PanaFax UF550/560/770/880 Black Toner Cartridge	10,000	84-82-24	95.53	99.95	98.95	97.96	
UG-3313	PanaFax UF550/560/770/880 Black Toner Cartridge (**5 pack**)	50,000	04-18-23	458.35	➧	465.95	463.15	NEW
UG-3202	PanaFax UF733 Black Toner Cartridge	3,000	21-42-50	28.63	29.95	29.65	29.35	
UG-3202	PanaFax UF733 Black Toner Cartridge (**5 pack**)	15,000	04-54-05	139.95	➧	144.95	143.50	
UG-3302	PanaFax UF733 Process Kit	12,000	21-42-67	180.89	➧	185.95	184.09	
UG-3309	PanaFax UF744/788 Black Toner Cartridge	10,000	22-04-88	114.84	➧	118.95	117.76	
UG-4501	PanaFax UF744/788 Ozone Filter	30,000	88-41-61	6.91	7.75	7.50	7.25	
UG-3204	PanaFax UF745/755 Black Toner Cartridge	8,000	21-64-16	84.06	87.95	87.07	86.20	
KX-P450	PanaFax UF750 Black Toner Cartridge	5,000	20-79-13	16.20	16.95	16.78	16.61	
KX-PDM1	PanaFax UF750 Drum Unit	13,000	20-79-44	65.90	68.95	68.26	67.58	
KX-PDP1	PanaFax UF750 Developer Unit	20,000	20-79-20	52.52	54.95	54.40	53.86	
KX-PFT1	PanaFax UF750 Ozone Filter	30,000	20-89-98	15.25	15.95	15.79	15.63	
KX-PFS3	PanaFax UF750 Fuser Unit	30,000	22-90-63	121.55	➧	124.95	123.70	
KX-PCR1	PanaFax UF750 Corona Wire	60,000	21-14-73	14.29	14.95	14.80	14.65	
KX-P453	PanaFax UF766 Black Toner Cartridge	3,000	21-41-26	18.11	18.95	18.76	18.57	
KX-PDM5	PanaFax UF766 Drum Unit	12,000	21-67-53	66.86	69.95	69.25	68.56	
KX-PFS5	PanaFax UF766 Fuser Unit	90,000	21-41-57	101.33	➧	104.95	103.90	
KX-PCR3	PanaFax UF766 Corona Wire	90,000	21-71-92	38.18	39.95	39.55	39.15	
KX-PDP4	PanaFax UF766 Developer Unit	90,000	22-77-73	101.33	➧	104.95	103.90	

***B/W = 350 pages, Colour = 90 pages**

OTHER ITEMS

FOR FAX MACHINES SEE PAGES 464–473

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

COPIER SUPPLIES

Canon

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
PC 10/12/14/15/20/22/24/25 Black Copier Cartridge	20-76-45	56.35	58.95	58.36	57.78
FC 200/220/236/PC740/760/770/780 Black Copier Cartridge	21-80-67	59.02	61.75	61.13	60.52
NP 1015 Black Toner Cartridge	25-81-20	27.67	28.95	28.66	28.37
CLC 7/10/CN10 Black Ink Cartridge	22-00-62	33.41	34.95	34.60	34.25
CLC 7/10/CN10 Cyan Ink Cartridge	22-00-79	33.41	34.95	34.60	34.25
CLC 7/10/CN10 Yellow Ink Cartridge	22-00-86	33.41	34.95	34.60	34.25
CLC 7/10/CN10 Magenta Ink Cartridge	22-00-93	33.41	34.95	34.60	34.25
NP150/155 Toner	23-22-72	38.95	40.75	40.34	39.94
NP1010/1020/6010	23-49-53	10.47	10.95	10.84	10.73
NP1215/1550/2020/6020 Toner	25-81-20	27.67	28.95	28.66	28.37
NP3025/3525/3725 Toner	23-12-51	23.08	24.15	23.91	23.67
NP3030/3050 Toner	23-08-43	25.19	26.35	26.09	25.83
NP3325/3825 Toner	23-39-00	30.16	31.55	31.23	30.92
NP4050/4080 Toner	23-27-76	23.27	24.35	24.11	23.87
NP5/6/7 Series Toner	23-36-85	28.05	29.35	29.06	28.77
NP6012/6112 Toner	23-98-38	14.58	15.25	15.10	14.95
NP6016/6218/6521 Toner	23-53-60	32.45	33.95	33.61	33.27
NP6025/6030 Toner	23-76-59	16.68	17.45	17.28	17.10
NP6045 Toner	23-64-67	41.53	43.45	43.02	42.59
NP6050 Toner	23-76-73	39.14	40.95	40.54	40.14
NP6060 Toner	23-78-02	47.74	49.95	49.45	48.96
NP6085 Toner	23-82-29	37.99	39.75	39.35	38.96
GP30/55 Toner	23-15-20	19.07	19.95	19.75	19.55
GP215 Toner	23-62-54	19.93	20.85	20.64	20.44
FC3 A30 Black Cartridge	86-32-85	84.00	87.50	87.50	87.50

COPIER SUPPLIES

MINOLTA

8931801	EP3170/4210 Toner	23-31-46	16.30	17.05	16.88	16.71
8916501	EP3070/3702 Toner	23-34-68	15.05	15.75	15.59	15.44
8932604	EP3050/4050 Toner	23-91-71	111.95	◗	115.95	114.79
8916402	EP410/415/425 Toner	23-51-97	28.63	29.95	29.65	29.35
8916102	EP450/470/4230 Toner	23-40-11	29.39	30.75	30.44	30.14
8935804	EP1031/1030 Toner	23-60-67	11.23	11.75	11.63	11.52
8931602	EP21 Series Toner	23-78-53	11.23	11.75	11.63	11.52
8932404	EP1050/1080 Toner	23-93-14	17.83	18.65	18.46	18.28
8932304	EP2050 Toner	23-86-98	50.61	52.95	52.42	51.90

OTHER ITEMS

FOR INKJET PRINTERS SEE PAGES 374–399
FOR LASER PRINTERS SEE PAGES 404–437

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

COPIER SUPPLIES

MINOLTA

PART NO.	DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
8935304	EP2080/2051 Toner	23-86-64	27.67	28.95	28.66	28.37
8935504	EP4000/5000 Toner	23-67-44	100.89	◗	104.50	103.46
8916702	EP2100/3120/3150 Toner	23-75-83	9.80	10.25	10.15	10.05
8935204	EP1052/2010 Toner	23-58-18	17.63	18.45	18.27	18.08
8935604	EP6001 Toner	23-38-91	53.00	55.45	54.90	54.35

COPIER SUPPLIES

Panasonic

FQT80R	FP1570 Toner	23-53-63	13.33	13.95	13.81	13.67
FQT35P	FP2230 Toner	23-94-86	27.67	28.95	28.66	28.37
FQT30H	FP3007/3037/3030/4650 Toner	23-17-31	22.89	23.95	23.71	23.47
FQT50K	FP1510/1530/1302 Toner	23-70-31	8.08	8.45	8.37	8.28
FQTC10	FP1270/1275/1300 Toner	23-22-76	5.69	5.95	5.89	5.83
FQTA10	FP1620/1670 Toner	23-12-55	12.95	13.55	13.41	13.28
FQTA20	FP2670/2680 Toner	23-08-46	20.02	20.95	20.74	20.53
FQTA30	FP4080/7140 Toner	23-39-03	20.98	21.95	21.73	21.51
FQTK10	FP7718/7722 Toner	23-27-78	24.80	25.95	25.69	25.43
FQTK20	FP7728/7735 Toner	23-36-87	34.84	36.45	36.09	35.72

COPIER SUPPLIES

SHARP

ZT20TDI	Z20/25 Toner (2 pack)	82-38-85	59.20	69.00	69.00	69.00
ZT30DC1	Z30 Toner	23-53-64	33.41	34.95	34.60	34.25
ZT50DC1	Z50/52/88 Toner	23-76-61	26.28	27.50	27.23	26.95
ZT50DR1	Z50/52/57 OPC Drum	23-64-68	44.88	46.95	46.48	46.02
ZT81TD1	Z810 Toner	23-06-12	41.05	42.95	42.52	42.10
ZT81DR1	Z810 OPC Drum	23-76-74	49.65	51.95	51.43	50.92
SF730CT	SF7300/50/20 Toner	23-78-03	7.17	7.50	7.43	7.35
SF780CT	SF7800/7830 Toner	23-82-30	10.47	10.95	10.84	10.73
SF214LT	SF2014/2114 Toner	23-15-21	10.47	10.95	10.84	10.73
SF830CT1	SF8300/50/8400 Toner	23-62-55	8.55	8.95	8.86	8.77
AL80TD	AL800 Toner	23-31-47	85.98	89.95	89.05	88.16
AL100TD	AL1000 Toner	81-41-65	71.64	74.95	74.20	73.46
AL11PK	AL1000 Printer Kit	57-38-98	79.29	82.95	82.12	81.30
AL10PK	AL1220 Printer Kit	35-20-08	58.26	60.95	60.34	59.74
AL100TD	AL1000/1220 Toner Cartridge	81-41-65	71.64	74.95	74.20	73.46
AL100DR	AL1000/1220 Drum	45-97-96	78.33	81.95	81.13	80.32

OTHER ITEMS

FOR INKJET PRINTERS SEE PAGES 374–399
FOR LASER PRINTERS SEE PAGES 404–437

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

COPIER SUPPLIES





COPIER SUPPLIES — TOSHIBA

PART NO.	DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
T61P	BD3110 Toner	23-24-69	8.54	9.95	9.55	9.17
T120P	BD1200/1210/2810 Toner	23-91-72	7.17	7.50	7.43	7.35
T85P	BD1310/3810/3910 Toner	23-51-98	8.94	9.35	9.26	9.16
T1710	BD1710/2310/2500 Toner	23-40-12	10.47	10.95	10.84	10.73
T80P	BD5110/5120 Toner	23-60-68	8.12	8.50	8.42	8.33
T1350E	T1340/T1350 Toner	23-78-54	10.47	10.95	10.84	10.73
T2510	T2510/2550 Toner	23-93-15	15.25	15.95	15.79	15.63
T1550E	BD1550 Toner	23-86-99	10.47	10.95	10.84	10.73

COPIER SUPPLIES — XEROX

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Toner Cartridge for X5309/5310/5009	24-11-51	88.84	92.95	92.02	91.10
CRU Unit for X5309/5310/5009	23-70-27	104.22	➧	107.95	106.87
Toner Cartridge for X5201/5305/XC356	52-97-43	71.21	74.50	73.76	73.02
Drum Unit for X5201/5305/XC356	23-22-71	94.58	98.95	97.96	96.98
Toner Cartridge for XC580	23-49-52	68.77	71.95	71.23	70.52
Drum Unit for XC580	23-12-50	95.53	99.95	98.95	97.96
Toner Cartridge for XC830/875	23-08-42	78.33	81.95	81.13	80.32
Drum Unit for XC830/875	23-38-99	104.22	➧	107.95	106.87
Drum Unit for XD100/103/104	23-36-84	125.46	➧	129.95	128.65
Toner Cartridge for XE60/XE80/XE84	23-98-37	85.98	89.95	89.05	88.16
Drum Unit for XE60/XE80/XE84	23-30-98	106.15	➧	109.95	108.85

OTHER ITEMS

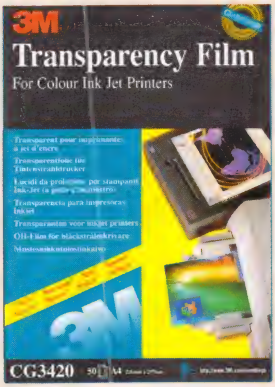
FOR PHOTOCOPIERS SEE PAGE 481

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

STATIONERY

GUIDE TO COMPUTER STATIONERY BY MANUFACTURER







3M
Inkjet Film 1027
Laser Film 1027
Transparency Film 1027
Transparency Protectors 1027

Action
Printer Starter Kits 1024-1026

Avery
Address Labels 1028-1029
Cards 1028
Copier Labels 1030
Full face CD/DVD media range 1022
Inkjet Labels 1029, 1030
Label Printing Software 1029

BXR
Continuous Labels 1033, 1034
Laser Labels 1032, 1033

Hewlett-Packard
CD Labelling 1031

Paper Run
Copier Paper 1021
Fax Paper 1021
Laser Paper 1021

Toplist
Continuous Listing Paper 1018-21

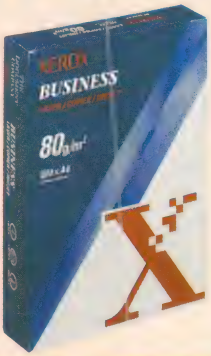
Xerox
Copier Paper 1023
Fax Paper 1023
Inkjet Paper 1023
Laser Paper 1023

EPSON®



EPSON A4 QUALITY PAPER (5 pack) (S041061) only £30.06+VAT Online
Cat no: 04-18-19

XEROX



XEROX WHITE A4 BUSINESS LASER/FAX/ COPIER PAPER 250 SHEETS only £11.54+VAT Online
Cat no: 40-81-76

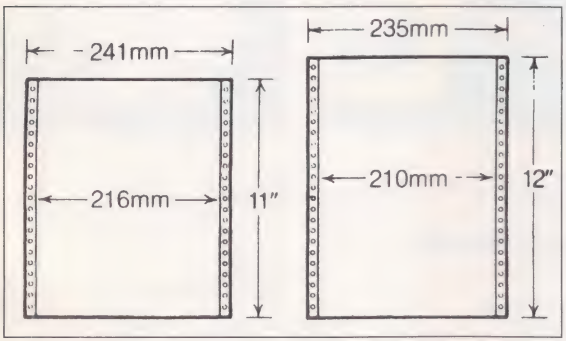
EPSON®



EPSON A4 PHOTO PAPER 20 SHEETS (5 pack) (S041140) ONLY £25.76+VAT Online
Cat no: 04-31-32

CONTINUOUS LISTING PAPER

Action's range of computer listing paper comes from Toplist the UK's leading brand. The range consists of different sized papers with different specifications depending on your requirements i.e. perforated, plain, music ruled, tinted, and also in different weights (gsm – grams per square metre).



The diagram shows 11" × 241mm (11" drop, 241mm overall width) and 12" × 235mm (12" drop, 235mm overall width) with perforations on each edge to allow removal of the ½" sprocket margins, if needed, after printing.

DIRECT DELIVERY

FREE DELIVERY – UK MAINLAND ONLY with every 10 box order on selected lines.

See the following chart for details.

FREE UK MAINLAND DELIVERY with every 10 BOX ORDER

CONTINUOUS LISTING PAPER 11" × 241mm (9½")		
1 part 60gsm Plain	46-17-64	●
1 part 60gsm Plain – Micro Perftd Margins	46-30-91	●
2 part Plain – Perftd Margins	46-53-48	●
CONTINUOUS LISTING PAPER 11" × 370mm		
1 part 60gsm Music Ruled	46-30-89	●
1 part 60gsm Plain	46-94-80	●
1 part 70gsm Music Ruled – Laser Quality	46-17-19	●
CONTINUOUS LISTING PAPER 11⅔" × 235mm (9¼")		
1 part 70gsm Plain – Micro Perftd Margins	46-70-23	●

N.B. The Catalogue Numbers apply to Direct Delivery only, based on 10 box minimum order quantity.

OTHER ITEMS

FOR CONTINUOUS LISTING PAPER SEE PAGES 1019–1021
FOR CONTINUOUS LABELS SEE PAGES 1033, 1034

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CONTINUOUS LISTING PAPER

TOPLIST



TOKENS TTAC1

PAPER MAKES TREES!

In the last 50 years the UK has lost more than half its ancient woodland. Conservation is now no longer enough... Restoration is vital. The Toptree Inititative allows you to collect the tokens in every box of Action's listing paper to have trees planted by the Woodland Trust in one of the nine Toptree groves throughout the United Kingdom.

CONTINUOUS LISTING PAPER 8″ × 305mm (12″)

DESCRIPTION	PERF TYPE	QTY/BOX	CAT NO	Web Price	PRICE PER BOX £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
1 part 60gsm Plain	None	2000	40-91-99	11.54	12.95	12.56	12.18

CONTINUOUS LISTING PAPER 11″ × 241mm (9½″)

1 part 60gsm Plain	None	2000	40-90-89	10.55	10.95	10.84	10.73
1 part 60gsm Plain (Direct Delivery only •)	None	2000	46-17-64	10.55	10.95	10.84	10.73
1 part 60gsm Music Ruled	None	2000	40-91-44	11.41	11.94	11.82	11.70
1 part 60gsm Plain – Micro Perftd Margins	Micro	2000	40-91-06	11.42	11.95	11.83	11.71
1 part 60gsm Plain – Micro Perftd Margins (Direct Delivery only •)	Micro	2000	46-30-91	10.55	10.95	10.84	10.73
2 part Plain – Perftd Margins	Standard	1000	40-91-51	18.20	18.95	18.76	18.57
2 part Plain – Perftd Margins (Direct Delivery only •)	Standard	1000	46-53-48	18.25	18.95	18.76	18.57
3 part NCR Plain – Perftd Margins	Standard	700	40-91-75	20.98	21.95	21.73	21.51
3 part Plain – Perftd Margins Tinted	Standard	700	40-91-82	29.63	31.00	30.69	30.38
4 part NCR Plain – Perftd Margins	Standard	500	40-08-06	22.89	23.95	23.71	23.47

• **FREE direct delivery (UK mainland only). Based on 10 box minimum order.**

OTHER ITEMS

FOR MORE CONTINUOUS LISTING PAPER SEE PAGES 1019–1021
FOR CONTINUOUS LABELS SEE PAGES 1033, 1034

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

CONTINUOUS LISTING PAPER 11" × 370mm

DESCRIPTION	PERF TYPE	BOXED	CAT NO	Web Price	PRICE PER BOX £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
1 part 60gsm Music Ruled	None	2000	40-92-85	14.88	15.45	15.30	15.14
1 part 60gsm Music Ruled (Direct Delivery only •)	None	2000	46-30-89	14.88	15.45	15.30	15.14
1 part 60gsm Plain	None	2000	40-92-92	15.36	15.95	15.79	15.63
1 part 60gsm Plain (Direct Delivery only •)	None	2000	46-94-80	15.36	15.95	15.79	15.63
1 part 70gsm Plain Laser Quality	None	2000	40-93-26	19.07	19.95	19.75	19.55
1 part 70gsm Music Ruled – Laser Quality	None	2000	40-93-33	19.07	19.95	19.75	19.55
1 part 70gsm Music Ruled – Laser Quality (Direct Delivery only •)	None	2000	46-17-19	17.29	17.95	17.77	17.59
1 part Recycled Music Ruled – Laser Quality 70gsm	None	2500	40-93-40	24.80	25.95	25.69	25.43
2 part NCR Music Ruled	None	1000	40-93-64	25.76	26.95	26.68	26.41
2 part NCR Plain	None	1000	40-93-71	25.76	26.95	26.68	26.41
3 part NCR Music Ruled	None	700	40-93-88	31.73	32.95	32.62	32.29
4 part NCR Music Ruled	None	500	43-81-91	34.17	35.75	35.39	35.04

Symbol indicates an environmentally friendly product.

CONTINUOUS LISTING PAPER 11" × 389mm (15 5/16")

1 part 60gsm Music Ruled	None	2000	40-93-95	18.11	18.95	18.76	18.57
1 part 60gsm Plain	None	2000	40-94-05	18.11	18.95	18.76	18.57
1 part 70gsm Plain – Laser Quality	None	2000	40-94-12	20.02	20.95	20.74	20.53

CONTINUOUS LISTING PAPER – MINI PACKS



DIMENSIONS INS × INS	DESCRIPTION	QTY PER PACK	CAT NO	Web Price	PRICE PER BOX £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
8½ × 12	1 part 70gsm Toplist Laser Plain	3000	69-04-10	20.98	21.95	21.73	21.51
11 × 15.3	1 part 60gsm Toplist Plus Plain	2000	69-04-27	18.11	18.95	18.76	18.57
11 × 15.3	1 part 70gsm Toplist Plus Green Music Ruled	2000	69-04-34	18.11	18.95	18.76	18.57
8 × 12	1 part 70gsm Laser plain	3000	41-24-85	19.55	20.45	20.25	20.04

• FREE direct delivery (UK mainland only). Based on 10 box minimum order.

OTHER ITEMS

FOR MORE CONTINUOUS LISTINGS PAPER SEE PAGES 1019–1021
FOR CONTINUOUS LABELS SEE PAGES 1033, 1034

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LASER/FAX/COPIER PAPER

Paper Run

Laser/Fax/Copier Paper A4 80gsm	2500	40-97-59	9.99	10.45	10.35	10.24
Laser/Fax/Copier Paper A4 80gsm **(Direct Delivery only 15 box minimum order●)**	2500	46-17-65	9.51	9.95	9.85	9.75

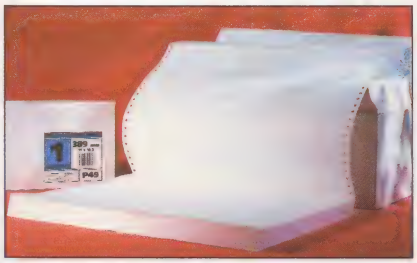
● FREE direct delivery (UK mainland only). Based on 10 box minimum order.

CONTINUOUS LISTING PAPER

TOPLIST

TOKENS

PAPER MAKES TREES!
In the last 50 years the UK has lost more than half its ancient woodland. Conservation is now no longer enough... Restoration is vital. The Toptree Inititative allows you to collect the tokens in every box of Action's listing paper to have trees planted by the Woodland



CONTINUOUS LISTING PAPER 11⅔" × 235mm (9¼")

DESCRIPTION	PERF TYPE	QTY /BOX	CAT NO	Web Price	PRICE PER BOX £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
1 part 70gsm Plain – Micro Perftd Margins	Micro	2000	40-92-09	16.20	16.95	16.78	16.61
1 part 70gsm Plain – Micro Perftd Margins (Direct Delivery only●)	Micro	2000	46-70-23	15.25	15.95	15.79	15.63
1 part 90gsm Plain – Micro Perftd Margins	Micro	1000	40-92-16	9.51	9.95	9.85	9.75

CONTINUOUS LISTING PAPER 12" × 235mm (9¼")

1 part 60gsm Plain Margins	Micro	2000	40-92-23	13.81	14.45	14.31	14.16
1 part 70gsm Plain Margins	Micro	2000	40-92-30	14.29	14.95	14.80	14.65

MULTI-COLOUR MULTIPART SETS 11⅔" × 235mm (9¼")

This continuous tinted NCR paper is ideal for those situations when there is a need to **differentiate** the copies from a white top sheet.
The micro-perforated sprocket hole edges ensure a nice clean edge when removed to produce A4 sheets.
CB = Coated Back
CFB=Coated Front and Back
CF=Coated Front
NCR=No Carbon Required

- Top sheet is always white (CB 80gsm) - Micro-perforated.
- Bottom sheet is always yellow (CF 57gsm).
- Middle sheets are (CFB 64 gsm).

2 part Box 1000 sets 1). White 2). Yellow
3 part Box 700 sets 1). White 2). Pink 3). Yellow

DESCRIPTION	PERF TYPE	QTY /BOX	CAT NO	Web Price	PRICE PER BOX £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
2 part Tinted **(A4)** plain/perf NCR	Micro	1000	40-92-54	31.30	32.75	32.42	32.10
3 part Tinted **(A4)** plain/perf NCR	Micro	700	40-92-61	33.41	34.95	34.60	34.25

● **FREE direct delivery (UK mainland only). Based on 10 box minimum order.**

OTHER ITEMS

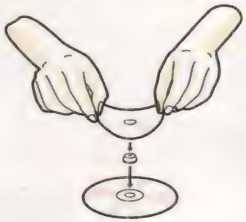
FOR MORE CONTINUOUS LISTING PAPER SEE PAGES 1019–1021
FOR CONTINUOUS LABELS SEE PAGES 1033, 1034

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

FULL FACE CD/DVD MEDIA RANGE

AVERY







Avery Full Face CD/DVD Labels

- Avery has a new CD solution, offering a wide variety of CD labels, for your inkjet, B&W laser and colour laser printers. Each product is specifically designed for a particular printer type, so you get the best results for maximum impact.

New fast, simple and accurate applicator method using easy to use centring applicator, included in every pack.

- Print design covers the whole of the CD/DVD face area, giving perfect representation of photo images and colour designs, for a more professional image.
- Larger 117mm diameter increases print area even more!
- Easy to format using existing software.
- 100% money back guarantee.

Avery Full Face CD/DVD Presenter Kit

- Kit includes all you need to get started in creating your own impressive CD designs.
- Wide range of different Full Face CD/DVD labels, case inserts and software for you to try.

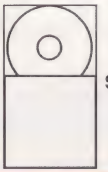
	MAN. PART NO.	DESCRIPTION	SIZE (mm)	LABELS/ SHEET	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
	FULL FACE CD/DVD LABELS & CD CASE INSERTS								
NEW	J8676-25	Inkjet	117.0 dia	2	46-17-27	6.64	7.45	7.23	7.01
NEW	C9660-25	Photo Quality Glossy Inkjet	117.0 dia	2	46-12-50	11.42	11.95	11.83	11.71
NEW	J8770-25	Premium Matt Inkjet (Replaces J8760-25)	117.0 dia	2	46-22-68	8.08	8.45	8.37	8.28
NEW	J8570-25	Clear Inkjet	117.0 dia	2	46-49-51	11.42	11.95	11.83	11.71
NEW	L7676-25	Black & White Laser (Replaces L7660-25)	117.0 dia	2	46-08-43	6.64	6.95	6.88	6.81
NEW	L7676REV-25	Removable Black & White Laser (Replaces L7660REV-25)	117.0 dia	2	46-39-00	7.97	8.95	8.68	8.42
NEW	L7760-25	Glossy Colour Laser	117.0 dia	2	46-27-77	11.09	12.45	12.08	11.71
	J8431-25	CD Insert Cover Inkjet	121.0×242.0	1	46-30-95	8.55	8.95	8.86	8.77
	J8432-25	CD Insert Tray Inkjet	138.0×117.0	2	46-53-51	8.55	8.95	8.86	8.77
	CD KIT								
NEW	S1700	Full Face CD/DVD Presenter Kit	117.0 dia	Various	46-36-84	7.12	7.45	7.38	7.30



J8431™



J8432™M



S1700™

OTHER ITEMS

FOR CD-RW SEE PAGE 1046

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LASER/FAX/COPIER/COLOUR INKJET/INKJET PAPER

XEROX



A reliable laser/fax/copier paper offering excellent value for money. **Xerox Performer** is the value for money paper for copying and laser printing which carries the Xerox **'no quibble guarantee'**.

FEATURES:

- Standard quality laser/fax/copy paper.
- Good performance (Simplex/Duplex).
- Standard whiteness, bulk and stiffness.



Xerox Premier Paper Premier is standard high quality copier paper with good whiteness. Available in A4 or A3, 80gsm or 90gsm. It has been awarded the **'Nordic Swan'** symbol for meeting environmental standards.

The 'Swan logo' awarded to Xerox papers means they have met stringent requirements set by an independent board. This ensures harmful chlorine and sulphur dioxide emission levels are not exceeded.



System X 90gsm Ultra White 90gsm This product is ideal for use with colour inkjet printers.









Xerox Recycled paper is made from 100% printed and unprinted post consumer waste. It is de-inked by soap and no bleaching or optical brightening agents are used to obtain greater whiteness. The Recycled paper is wrapped and packed in recycled material and has been awarded the **'Nordic Swan'** logo for environmental standards.

40-82-31







Colotech+ Colotech+ the ultimate paper for your colour printer/copier. Xerox Colotech+ is a smooth super calendered, uncoated, high white paper, designed and developed by Xerox to match all the requirements of colour and high speed printing/copying.

40-82-48

DESCRIPTION	SHEETS PER BOX	CAT NO	Web Price	PRICE PER BOX £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Premier White A4 80gsm	2500	40-82-17	12.87	14.45	14.02	13.60
Premier White A3 80gsm	2500	40-82-24	26.72	27.95	27.67	27.39
Premier White A4 90gsm	500	67-90-53	3.34	3.75	3.64	3.53
Premier White A3 90gsm	500	67-90-77	6.07	6.35	6.29	6.22
System X UltraWhite A4 90gsm	2500	67-90-84	18.22	20.45	19.84	19.24
Performer A4 80gsm	2500	40-98-38	10.65	11.95	11.59	11.24
Recycled A4 80gsm	2500	40-82-31	12.38	12.95	12.82	12.69
Colotech+ A4 100gsm	2000	40-82-48	26.68	29.95	29.05	28.18
Colotech+ A3 100gsm	2000	40-82-55	44.88	46.95	46.48	46.02
Business White A4 80gsm	2500	40-81-76	11.54	12.95	12.56	12.18
Business White A3 80gsm	2500	40-81-83	21.94	22.95	22.72	22.49

OTHER ITEMS

FOR FAX MACHINES SEE PAGES 464–473
FOR PRINTERS SEE PAGES 371–458
FOR PHOTOCOPIERS SEE PAGE 481

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRINTER STARTER KITS

Action

Action Saves You Time and Money with Printer Starter Kits...

We've made it easy for you to start working the moment you receive your printer with our unique Printer Starter Kits, containing the essential items you need to set up and start printing immediately.

Inkjet Printers

You will find this logo on those inkjet printer pages which carry **Action Printer Starter Kits:–**

Action Printer Starter Kit 1 contains one PC to Printer Parallel data cable and one manufacturer original inkjet cartridge.

Laser Printers

You will find this logo on those laser printer pages which carry

Action Printer Starter Kits:–

Action Printer Starter Kit 2 contains one PC to Printer Parallel data cable and one manufacturer original laser toner cartridge.



Dot Matrix Printers

You will find this logo on those dot matrix printer pages which carry **Action Printer Starter Kits:–**

Action Printer Starter Kit 3 contains one PC to Printer Parallel data cable and one manufacturer original printer ribbon.

In all cases above, you will find the Starter Kits represent a saving in price over the combined separate purchase prices of their constituent parts, and of course, these kits are ideal to get you new printer up and running the moment you take delivery. Look out for the logo!



◄ INKJET PRINTERS **See pages 374–396 ►**

Hewlett-Packard Canon Epson Lexmark

◄ LASER PRINTERS **See pages 404–437 ►**

Hewlett-Packard Brother Xerox QMS
Lexmark Kyocera OKI Epson
Samsung TekTronix Tally

◄ DOT MATRIX PRINTERS **See pages 441–451 ►**

Epson OKI Panasonic Tally

Each kit contains these essentials:

- **1 PC to Printer Parallel data cable 1.8m and one additional mono consumable.**

All these items are available separately should you require more as you continue to use your printer.

OTHER ITEMS

FOR INKJET PRINTERS SEE PAGES 374–396
FOR LASER PRINTERS SEE PAGES 404–437
FOR DOT MATRIX PRINTERS SEE PAGES 441–451

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

PRINTER STARTER KITS

FOR USE WITH	CAT NO	Web Price	PRICE PER BOX £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
BROTHER					
Brother HL-1240/1250/1270	04-30-94	36.27	37.95	37.57	37.19
Brother HL-1660/2060	06-22-82	49.65	51.95	51.43	50.92
Brother HL-2400C	04-97-62	85.98	89.95	89.05	88.16
Brother HL-820/1040/1050/1060/1070	06-22-99	17.16	17.95	17.77	17.59
Brother HL-730	05-31-05	20.98	21.95	21.73	21.51
Brother HL-1260EX	05-01-77	52.52	54.95	54.40	53.86
CANON					
Canon BJC-4000/5000 Series	05-70-15	21.94	22.95	22.72	22.49
Canon BJC-7000	04-97-17	25.76	26.95	26.68	26.41
Canon CLBP-360	04-97-79	66.86	69.95	69.25	68.56
Canon BJ-30/BJC-50/BJC-80	05-00-05	14.29	14.95	14.80	14.65
Canon BJC-250	04-26-59	16.88	18.95	18.38	17.83
Canon LBP-2460	04-26-28	96.26	99.95	98.95	97.96
Canon LBP-660	04-26-35	35.32	36.95	36.58	36.21
Canon LBP-1260 Plus	04-26-42	50.61	52.95	52.42	51.90
Canon BJC-4650/5500	04-97-00	26.68	29.95	29.05	28.18
Canon BJC-5000	04-17-63	20.98	21.95	21.73	21.51
Canon BJC-6000	04-53-45	21.94	22.95	22.72	22.49
EPSON					
Epson EPL-5700	06-33-46	55.39	57.95	57.37	56.80
Epson Stylus Color 300	06-12-83	14.29	14.95	14.80	14.65
Epson Stylus Color 3000/Pro 5000	05-01-15	34.36	35.95	35.59	35.23
Epson Stylus Color 440/460/640/660	06-25-81	15.25	15.95	15.79	15.63
Epson Stylus Color 740/760/860	06-25-98	17.16	17.95	17.77	17.59
Epson Stylus 750	06-63-67	16.88	18.95	18.38	17.83
Epson Stylus Color 850	06-23-61	17.16	17.95	17.77	17.59
Epson Stylus 900/N	06-63-74	20.02	20.95	20.74	20.53
Epson Stylus Photo 700	05-53-85	16.20	16.95	16.78	16.61
Epson Stylus Color 400	05-53-85	16.20	16.95	16.78	16.61
Epson Stylus Color 600	05-53-92	19.07	19.95	19.75	19.55
Epson Stylus 1000	05-00-81	15.99	17.95	17.41	16.89
Epson Stylus 1520	05-00-98	18.11	18.95	18.76	18.57
Epson EPL-1600	04-12-46	74.51	77.95	77.17	76.40
Epson EPL-N4000	04-38-96	183.39	◗	189.95	188.05
Epson LX-300	05-27-59	20.45	22.95	22.26	21.59

OTHER ITEMS

FOR PRINTERS SEE PAGES 371–458

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

PRINTER STARTER KITS

FOR USE WITH	CAT NO	Web Price	PRICE PER BOX £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
EPSON (CONT.)					
Epson DFX-5000+/8500	05-27-80	29.36	32.95	31.96	31.00
Epson LQ-300/LQ-870	05-27-97	22.23	24.95	24.20	23.48
FUJITSU					
Fujitsu Printpartner 10/14	05-70-39	48.70	50.95	50.44	49.94
HEWLETT-PACKARD					
HP DeskJet 610C	04-17-68	21.46	22.45	22.23	22.00
HP DeskJet 710C/720/890C/1120C/1170C/970Cxi	04-26-04	21.34	23.95	23.23	22.53
HP LaserJet 2000	06-31-02	23.85	24.95	24.70	24.45
HP LaserJet 4000	04-82-37	52.52	54.95	54.40	53.86
HP LaserJet 5000	04-97-55	90.75	94.95	94.00	93.06
HP DeskJet 1120C	04-96-90	23.85	24.95	24.70	24.45
HP LaserJet 1100	06-45-89	36.75	38.45	38.07	37.68
HP LaserJet 2100	06-68-00	53.88	55.95	55.39	54.84
HP LaserJet 8100	04-22-63	113.39	◗	117.45	116.28
HP Color LaserJet 4500	04-49-47	51.57	53.95	53.41	52.88
HP Color LaserJet 8500	04-08-38	63.04	65.95	65.29	64.64
HP DeskJet 340/340cbi	05-01-22	23.06	23.95	23.71	23.47
HP DeskJet 400L	05-70-22	25.76	26.95	26.68	26.41
HP DeskJet 670C/690C+	05-30-95	22.23	24.95	24.20	23.48
HP DeskJet 870CXI	05-21-82	32.92	36.95	35.84	34.77
HP DeskJet 1100C	04-26-11	25.76	26.95	26.68	26.41
HP DeskJet 1600C	05-01-46	27.67	28.95	28.66	28.37
HP LaserJet 6L	05-01-84	43.92	45.95	45.49	45.04
HP LaserJet 6P	05-01-91	51.57	53.95	53.41	52.88
HP Color LaserJet 5/5N/5M	05-03-04	14.55	16.95	16.27	15.62
HP LaserJet 5si/5SIMX/Mopier/8000	05-02-18	96.26	99.95	98.95	97.96
KYOCERA					
Kyocera FS-1200	04-49-54	42.92	50.00	48.00	46.08
Kyocera FS-1550	04-83-61	41.05	42.95	42.52	42.10
Kyocera FS-7000/FS-6500+	04-07-23	76.42	79.95	79.15	78.36
Kyocera FS-600	04-26-66	38.18	39.95	39.55	39.15
Kyocera FS-1700/FS-1750/FS-3700/FS-3750	05-70-77	57.87	64.95	63.00	61.11
LEXMARK					
Lexmark Optra S	04-07-16	96.26	99.95	98.95	97.96
Lexmark CJ1100	04-17-18	26.72	27.95	27.67	27.39

OTHER ITEMS

FOR PRINTERS SEE PAGES 371–458
FOR PHOTOCOPIERS SEE PAGES 481

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

TRANSPARENCY FILM/INKJET/LASER/COLOUR LASER FILM



RS7110 3M Professional Flip-Frame Transparency Protectors

Transparent envelopes with paper flaps that add professionalism to your presentation.

- Protect transparencies from fingerprints and scratches – always in perfect condition
- Make presentations easy to file away – organised and ready to use next time
- Reinforced holes allow presentation to be used many times
- Glass Clear envelopes – especially for transparency film – can be used on the projector
- Envelopes are easy to open so transparencies can be inserted quickly
- Paper Flaps open out to provide space for prompt notes and sequence numbering – key points don't get forgotten



Films for InkJet Printers:
CG3460 Hewlett-Packard™ compatible **40-83-41.**
CG3420 for all other printers **48-92-29.**



TS3110 3M Premium Transparency Sleeve

Glass Clear envelopes – especially for transparency film – can be used on the projector

- Protect transparencies from fingerprints and scratches
- Reinforced holes – presentation can be filed many times
- Envelopes are easy to open so transparencies can be inserted quickly

NEW
3M TRANSPARENCY SLEEVES
46-17-79 & 46-30-99

PART NO.	DESCRIPTION	FILMS PER BOX	CAT NO	Web Price	PRICE PER BOX £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
CG3300	Laser Transparency Film	50	40-83-27	6.26	6.55	6.48	6.42
CG3360	Paper-Backed Transparency Film	50	40-83-34	7.03	7.35	7.28	7.20
CG3700	Colour Laser Film for HP Colour Laserjet	50	90-95-03	12.95	13.55	13.41	13.28
CG3710	Colour Laser Film for other Colour Laser Printers	50	98-80-29	14.53	15.20	15.05	14.90
CG3460	Film for HP DeskJet Printers	50	40-83-41	17.44	18.25	18.07	17.89
CG3420	Film for Epson and Canon Inkjet Printers	50	48-92-29	16.49	17.25	17.08	16.91
PP2500	General Purpose Photocopier Film	100	69-00-18	9.99	10.45	10.35	10.24
PP2280	Colour Copier Film	100	40-83-72	14.82	15.50	15.35	15.19
RS7110	Flip Frame Transparency Protectors	100	48-92-36	32.70	33.95	33.61	33.27
RS7110/5	Flip-Frame™ Transparency Protectors	50	43-17-57	18.11	18.95	18.76	18.57
RS7114	Flip-Frame™ Transparency Protectors with Pre-View	100	69-00-25	36.27	37.95	37.57	37.19
RS7112	Flip-Frame™ Presentation Organiser with 20 Flip-Frame	1	40-84-06	14.77	15.45	15.30	15.14
TS3110	Premium Transparency Sleeves	50	46-17-79	8.75	9.15	9.06	8.97
TS3110-20	Premium Transparency Sleeves	20	46-31-05	4.06	4.25	4.21	4.17
TS3109	Standard Transparency Sleeves	50	46-30-99	7.79	8.15	8.07	7.99
TS3109-20	Transparency Sleeves	20	46-94-88	3.58	3.75	3.71	3.68

OTHER ITEMS
FOR PRINTERS SEE PAGES 371–458
FOR PHOTOCOPIERS SEE PAGES 481

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

LASER ADDRESS LABELS

AVERY®

PART NO	COLOUR	SIZE mm	LABELS/ SHEET	SHEETS/ BOX	CAT NO	Web Price	PRICE PER BOX £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
L7160-100	White	63.5 × 38.1	21	100	50-16-19	15.53	16.25	16.09	15.93
L7161-100	White	63.5 × 46.6	18	100	50-16-02	15.53	16.25	16.09	15.93
L7162-100	White	99.1 × 34.0	16	100	50-15-92	15.53	16.25	16.09	15.93
L7163-100	White	99.1 × 38.1	14	100	99-25-65	31.88	33.35	33.02	32.69
L7165-100	White	99.1 × 67.7	8	100	50-20-89	15.53	16.25	16.09	15.93
L7651-100	White	38.1 × 21.2	65	100	50-23-71	16.01	16.75	16.58	16.42

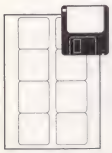
LASER MEDIA LABELS

AVERY®

PART NO	DESCRIPTION	SIZE mm	LABELS/ SHEET	SHEETS/ BOX	CAT NO	Web Price	PRICE PER BOX £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
L7656-25	35mm Slide	46.0 × 11.11	84	25	50-27-66	8.36	8.75	8.66	8.58
L7664-25	3½" Diskette, Wraparound	70.0 × 71.9	8	25	50-21-06	7.57	7.90	7.85	7.80
L7665-25	Mini Data cart	72.0 × 21.15	24	25	50-23-95	7.89	8.25	8.17	8.09
L7668REV-25	Zip Diskette (removable)	59.0 × 51.0	15	25	50-33-25	9.80	10.25	10.15	10.05
L7671-25	Video Face	76.2 × 46.4	12	25	50-27-35	8.36	8.75	8.66	8.58
L2674-25	Video Spine	145.0 × 17.0	16	25	50-27-42	7.60	7.95	7.87	7.79


L7656™


L7668REV™


L7664™


L7671™


L7665™


L7674™


L7666™

BUSINESS CARDS

AVERY®

PART NO	DESCRIPTION	LABELS/SIZE mm	LABELS/ SHEET	SHEETS/ BOX	CAT NO	Web Price	PRICE PER BOX £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
L7431-25	B&W Laser Clean Edge™ Business Cards	50.8 × 90.0	10	25	45-98-40	11.42	11.95	11.83	11.71

OTHER ITEMS

FOR PRINTER CONSUMABLES SEE PAGES 945–1034

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

INKJET ADDRESS LABELS

AVERY

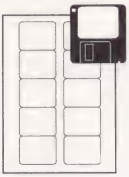
PART NO	COLOUR	SIZE mm	LABELS/ SHEET	SHEETS/ BOX	CAT NO	Web Price	PRICE PER BOX £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
J8160-40	White	63.5×38.1	21	40	50-21-20	7.48	7.90	7.85	7.80
L8161-40	White	63.5×46.6	18	40	50-23-57	7.12	7.45	7.38	7.30
J8162-40	White	99.1×34	16	40	50-21-37	7.55	7.90	7.82	7.74
J8163-40	White	99.1×38.1	14	40	50-21-44	7.48	7.90	7.85	7.80
J8165-40	White	99.1×67.7	8	40	50-21-51	7.48	7.90	7.85	7.80

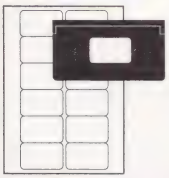
INKJET MEDIA LABELS

AVERY

PART NO	DESCRIPTION	SIZE mm	LABELS/ SHEET	SHEETS/ BOX	CAT NO	Web Price	PRICE PER BOX £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
J8671-25	Video Face Label	76.2×46.4	12	25	50-27-97	7.53	8.45	8.20	7.95
J8674-25	Video Spine Label	145×17	16	25	50-28-07	7.35	8.25	8.00	7.76
J8657-25	35mm Slide	46.0×11.11	42	25	98-94-44	7.97	8.95	8.68	8.42
J8666-25	3.5″ diskette (face only)	70.0×52.0	10	25	50-27-80	7.97	8.95	8.68	8.42


J8657™


J8666™


J8671™

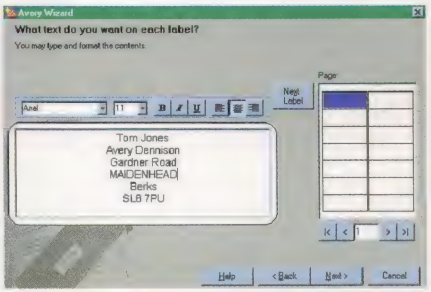

J8674™

LABEL PRINTING SOFTWARE

AVERY

Avery Wizard™ — For use in conjunction with Microsoft® Word 6, 7, '97 and 2000.

- Avery and Microsoft® have joined forces to bring you the Avery Wizard™.
- The Avery Wizard™ contains simple step-by-step instructions on how to print your Avery Label, Card, Index and Paper products.
- It's WYSIWYG (What You See Is What You Get) display helps to ensure that your text won't print off the edges of the label.
- For a free copy of the Avery Wizard™ for Microsoft® Word 6, 7, '97 and 2000, simply call the Avery helpline on 0800 80 50 20 or you can download from the Avery Website at www.avery.co.uk.



OTHER ITEMS

FOR PRINTER CONSUMABLES SEE PAGES 945–1034

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

COPIER/INKJET MEDIA LABELS

AVERY®


DPS01


DPS08


DPS16


DPS24


J8657™


L7665™


L7674/J8674™


L7671/J8671™


L7656™


L7664/J8666™


L7660™

PART NO	DESCRIPTION	SIZE (mm)	LABELS/ SHEET	SHEETS/ BOX	CAT NO	Web Price	PRICE PER BOX £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
CD LABELS									
L7660 - 25	CD label	114.5dia	2	25	97-70-47	15.10	16.95	16.44	15.95
LASER MEDIA LABELS									
L7668 - 25	**Laser** Zip diskette*	59×51	15	25	50-33-25	9.80	10.25	10.15	10.05
L7669 - 25	**Laser** Superdisk diskette*	68×61	8	25	50-33-32	10.20	11.45	11.11	10.77
L7664 - 25	**Laser** 3.5 diskette	70×71.9	8	25	50-21-06	7.57	7.90	7.85	7.80
L7656 - 25	**Laser** 35mm slide	46×11.11	84	25	50-27-66	8.36	8.75	8.66	8.58
L7665 - 25	**Laser** Mini Data	72×21.15	24	25	50-23-95	7.89	8.25	8.17	8.09
L7671 - 25	**Laser** Video Face	76.2×46.4	12	25	50-27-35	8.36	8.75	8.66	8.58
L7674 - 25	**Laser** Video Spine	145×17	16	25	50-27-42	7.60	7.95	7.87	7.79
INKJET MEDIA LABELS									
J8666 - 25	**Inkjet** 3.5" diskette	70×52	10	25	50-27-80	7.97	8.95	8.68	8.42
J8657 - 25	**Inkjet** 35mm slide	46×11.11	42	25	98-94-44	7.97	8.95	8.68	8.42
J8671 - 25	**Inkjet** Video Face	76.2×46.4	12	25	50-27-97	7.53	8.45	8.20	7.95
J8674 - 25	**Inkjet** Video Spine	145×17	16	25	50-28-07	7.35	8.25	8.00	7.76

COPIER LABELS

DPS01 - 100	Shipping	210×297	1	100	98-96-19	10.47	10.95	10.84	10.73
DPS08 - 100	Parcelling	105×71	8	100	98-96-26	12.04	13.75	13.65	13.55
DPS16 - 100	Addressing	105×37	16	100	98-96-40	11.54	12.95	12.56	12.18
DPS24 - 100	Addressing	70×36	24	100	99-20-91	11.54	12.95	12.56	12.18

*Removable lables

OTHER ITEMS

FOR PRINTERS SEE PAGES 371–458

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CD LABELER II



SPECIAL OFFER
ONLY £13.32
ONLINE
CAT NO: 49-39-54

HP CD-Labeler II – Unlimited creativity for your CD labels!

The HP CD-Labeler II now provides you with a complete solution that ensures precisely centred labels are applied to your CDs. Labels can be printed on any inkjet or laser printer! Contents:

- CD Labeler II.
- Labeling software for Win 3.x, Win 95/98, Win NT and Mac.
- 10 special labels.
- 2 Jewel case inserts.
- Approx. 100 high quality photos.

MAN. PART NO	DESCRIPTION	CAT NO	Web Price	PRICE PER BOX £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
CDX7500E	HP CD-Labeler II Kit	49-39-54	13.32	14.95	14.50	14.07
CDX8040E	HP CD labels (40 Pack)	49-40-56	8.86	9.95	9.65	9.36
CDX8020E	HP CD inlays (20 Pack)	49-40-63	9.51	9.95	9.85	9.75

CD LABELER I



Still available for HP Labeler I

DESCRIPTION	QTY.	CAT NO	Web Price	PRICE PER BOX £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
CDR3000A additional CD Labels	30	68-32-76	7.97	8.95	8.68	8.42
CDR6000A additional CD Labels	60	68-32-83	10.65	11.95	11.59	11.24
CDR5010A CD covers & inlay cards	10	45-79-83	6.01	6.75	6.55	6.35

OTHER ITEMS
FOR CD-RW SEE PAGE 1046

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

SOFTWARE COMPATIBLE LASER LABELS

BXR

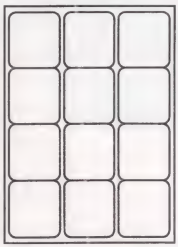
BXR is an exciting new range of self-adhesive labels available exclusively from Action. Available in both A4 sheets and continuous fanfold, these labels both feature an aggressive permanent adhesive to provide excellent value with outstanding performance.
The A4 sheets have been designed to meet today's demanding range of laser, photocopier and inkjet printers and along with fanfold labels, achieve outstanding results in both toner adhesion and ink anchorage and with a Kraft backing are guaranteed to lay flat for trouble free operation.



199.1 × 289.1mm
1 label/sheet
50-31-74



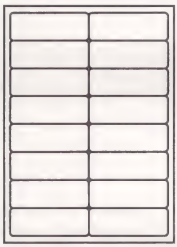
99.1 × 67.7mm
8 labels/sheet
50-20-10



63.5 × 72mm
12 labels/sheet
50-31-81



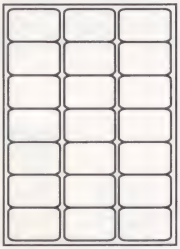
99.1 × 38.1mm
14 labels/sheet
50-20-27



99.1 × 34mm
16 labels/sheet
50-20-34



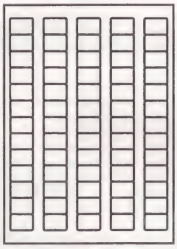
63.5 × 46.6mm
18 labels/sheet
50-31-98



63.5 × 38.1mm
21 labels/sheet
50-20-41



65 × 32mm
24 labels/sheet
50-20-58



38.1 × 21.2mm
65 labels/sheet
50-20-65

SIZE mm × mm	LABELS PER SHEET	LABELS PER BOX	CAT NO	Web Price	PRICE PER BOX £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
199.1 × 289.1	1	100	50-31-74	4.73	4.95	4.90	4.85
99.1 × 67.7	8 (2 × 4)	800	50-20-10	4.73	4.95	4.90	4.85
63.5 × 72	12 (3 × 4)	1200	50-31-81	4.73	4.95	4.90	4.85
99.1 × 38.1	14 (2 × 7)	1400	50-20-27	4.73	4.95	4.90	4.85
99.1 × 34	16 (2 × 8)	1600	50-20-34	4.73	4.95	4.90	4.85
63.5 × 46.6	18 (3 × 6)	1800	50-31-98	4.73	4.95	4.90	4.85
63.5 × 38.1	21 (3 × 7)	2100	50-20-41	4.73	4.95	4.90	4.85
65 × 32	24 (3 × 8)	2400	50-20-58	4.73	4.95	4.90	4.85
38.1 × 21.2	65 (5 × 13)	6500	50-20-65	4.73	4.95	4.90	4.85

OTHER ITEMS

FOR MORE LASER LABELS SEE PAGES 1028–1034

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

LASER/COPIER LABELS

B/R



210 × 148mm
2 labels/sheet
50-32-08



105 × 148mm
4 labels/sheet
50-30-19
46-50-30
46-50-47



105 × 74mm
8 labels/sheet
50-32-15



105 × 38mm
14 labels/sheet
50-32-22



105 × 37mm
16 labels/sheet
50-30-26



70 × 38mm
21 labels/sheet
50-19-94



70 × 34mm
24 labels/sheet
50-19-70

SIZE mm × mm	LABELS PER SHEET	LABELS PER BOX	CAT NO	Web Price	PRICE PER BOX £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
210 × 148	2	200	50-32-08	4.73	4.95	4.90	4.85
105 × 148	4 (2 × 2)	400	50-30-19	4.73	4.95	4.90	4.85
105 × 74	8 (2 × 4)	800	50-32-15	4.73	4.95	4.90	4.85
105 × 38	14 (2 × 7)	1400	50-32-22	4.73	4.95	4.90	4.85
105 × 37	16 (2 × 8)	1600	50-30-26	4.73	4.95	4.90	4.85
70 × 38	21 (3 × 7)	2100	50-19-94	4.73	4.95	4.90	4.85
70 × 34	24 (3 × 8)	2400	50-19-70	4.25	4.95	4.75	4.56

LABELS – FOUR ACROSS THE WEB

B/R

SIZE mm × mm	SIZE INS × INS	SEPA-RATION	BACKING WIDTH (INS)	LABELS/ BOX	CAT NO	Web Price	PRICE PER BOX £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
80 × 36	3 1/5 × 1 7/16	1/10"	14 1/10"	16000	50-06-58	24.80	25.95	25.69	25.43
80 × 49	3 1/5 × 1 15/16	1/10"	14 1/10"	12000	50-06-65	23.85	24.95	24.70	24.45

OTHER ITEMS
FOR ACTION'S RANGE OF LABEL MAKING SOFTWARE SEE PAGE 858

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

Lower prices on-line at action.com

LABELS – ONE ACROSS THE WEB

BXR

SIZE mm × mm	SIZE INS × INS	SEPA-RATION	BACKING WIDTH (INS)	LABELS/ BOX	CAT NO	Web Price	PRICE PER BOX £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
89 × 36	3½ × 1 7/16	—	4½″	8000	50-01-60	17.77	19.95	19.35	18.77
89 × 49	3½ × 1 15/16	—	4½″	6000	50-04-21	17.77	19.95	19.35	18.77
102 × 36	4 × 1 7/16	—	5″	8000	50-01-91	19.07	19.95	19.75	19.55
102 × 49	4 × 1 15/16	—	5″	6000	50-03-59	19.07	19.95	19.75	19.55
102 × 74	4 × 2 15/16	—	5″	4000	50-04-14	19.07	19.95	19.75	19.55
127 × 100	5 × 3 15/16	—	6″	3000	50-05-17	24.90	27.95	27.11	26.30

LABELS – TWO ACROSS THE WEB

BXR

SIZE mm × mm	SIZE INS × INS	SEPA-RATION	BACKING WIDTH (INS)	LABELS/ BOX	CAT NO	Web Price	PRICE PER BOX £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
89 × 36	3½ × 1 7/16	1/10″	8 1/10″	8000	50-01-77	15.10	16.95	16.44	15.95
102 × 36	4 × 1 7/16	1/10″	9 1/10″	8000	50-02-01	17.16	17.95	17.77	17.59
102 × 49	4 × 1 15/16	¼″	9¼″	6000	50-03-11	17.77	19.95	19.35	18.77

LABELS – THREE ACROSS THE WEB

BXR

BXR

SIZE mm × mm	SIZE INS × INS	SEPA-RATION	BACKING WIDTH (INS)	LABELS/ BOX	CAT NO	Web Price	PRICE PER BOX £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
102 × 36	4 × 1 7/16	1/10″	13¼″	12000	50-02-18	23.85	24.95	24.70	24.45
102 × 49	4 × 1 15/16	1/10″	13¼″	9000	50-04-07	23.85	24.95	24.70	24.45





OTHER ITEMS

FOR LASER LABELS SEE PAGES 1028–1034
FOR LABEL MAKING SOFTWARE SEE PAGE 858

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

INDEX BY PRODUCT TYPE

3½" Drive Cleaning Kits 1064
3½" Formatted Diskettes 1062, 1065, 1068
3½" Formatted for Mac Diskettes .. 1062, 1068
4mm Data Storage 1054
4mm Data Tapes 1052-1053
5¼" Diskettes 1062
5¼" Formatted Diskettes 1062
8mm Data Tapes 1055
Alkaline Batteries 1065
Bulk 3½" Diskettes 1071
Bulk CD-R 1071
CD Labels 1050
CD Labelling 1048
CD-R Compact Disc – Recordable ... 1047-1049
CD Repair Kit 1049
CD-RW Compact Disc – Rewritable ... 1046
CD Storage 1051
Cleaning Tapes 1055
Compactape 1044
Data Cartridges 1064, 1067
Disk Cartridges – Removable & Data Cartridges 1039-1040
Diskettes 1068
Diskettes – Colour Coded 1068
Diskettes – Pre-formatted 1068
Diskettes – Pre-formatted for MAC ... 1068
DLT & Compactape 1041-1042
Drive Cleaning Kits 1064
DVD Labels-CD Inserts 1050
DVD-RAM Discs 1045
DVD-R Discs 1045
Guide to – Magnetic Media 1038
HP Magnetic Media Range 1060-1061
LS-120 Diskettes 1044
Optical Disks – MO Re-writable . 1058-1060
Optical Disks – WORM 1060
Removable Media Storage & Labels .. 1043
Special Offer 1069
Travan Cartridges 1056

FOR LARGE ORDERS, DEALS, QUOTES AND FURTHER INFORMATION, PLEASE CALL THE OFFICE PRODUCTS AND SUPPLIES TEAM ON 08701 66 00 22

INDEX BY MANUFACTURER

3M (Imation)
3½" Drive Cleaning Kits..... 1064
3½" Formatted Diskettes..... 1062
3½" Formatted for Mac Diskettes.. 1062
5¼" Diskettes..... 1062
5¼" Formatted Diskettes..... 1062
4mm Data Tapes..... 1053
8mm Data Tapes..... 1055
CD-R Compact Disc – Recordable.. 1049
CD-RW Compact Disc – Rewritable. 1046
Cleaning Tapes..... 1055
Compactape..... 1044
Data Cartridges..... 1064
DLT & Compactape..... 1041–1042
Drive Cleaning Kits..... 1064
LS-120 Diskettes..... 1044
Travan Cartridges..... 1056–1057

Avery
CD Labels..... 1050
DVD Labels-CD Inserts..... 1050

Compaq
DLT & Compactape..... 1041–1042

DEC
Compactape..... 1044

Exponent
4mm Data Storage..... 1054
Removable Media Storage & Labels 1043

Fellowes
4mm Data Storage..... 1054

Hewlett-Packard
4mm Data Tapes..... 1052
CD Labelling..... 1048
CD-R Compact Disc – Recordable.. 1048
CD-RW Compact Disc – Rewritable. 1046
DLT & Compactape..... 1041–1042
HP Magnetic Media Range... 1060–1061
Optical Disks – MO Re-writable.... 1060
Optical Disks – WORM..... 1060
Travan Cartridges..... 1056–1057

IBM
Compactape..... 1044

Iomega
Disk Cartridges – Removable & Data Cartridges..... 1039–1040

Kensington
Removable Media Storage & Labels 1043

Kodak
CD-R Compact Disc – Removable.. 1050

Maxell
DVD-RAM Discs..... 1045
DVD-R Discs..... 1045
Travan Cartridges..... 1057

On Stream
Disk Cartridges – Removable & Data Cartridges..... 1040

Panasonic
Optical Disks – WORM..... 1060

Phoenix
4mm Data Storage..... 1054

Pressit
CD Repair Kit..... 1049

Quantum
DLT & Compactape..... 1041–1042

Sony
3½" Formatted Diskettes..... 1065
4mm Data Tapes..... 1052
8mm Data Tapes..... 1055
Alkaline Batteries..... 1065
CD-R Compact Disc – Recordable.. 1047
CD-RW Compact Disc – Rewritable. 1046
Cleaning Tapes..... 1055
Data Cartridges..... 1067
DLT & Compactape..... 1041–1042
Optical Disks – MO Re-writable.... 1058
Optical Disks – WORM..... 1060
Travan Cartridges..... 1056–1057

TDK
3½" Formatted Diskettes..... 1068
3½" Formatted for Mac Diskettes.. 1068
4mm Data Tapes..... 1053
CD-R Compact Disc – Recordable.. 1047
CD-RW Compact Disc – Rewritable. 1046
Diskettes – Pre-formatted for MAC. 1068
DVD-RAM Discs..... 1045
Optical Disks – MO Re-writable.... 1059
Special Offer..... 1069

Kodak





FREE EXPONENT CD PERSONAL LIBRARY (HOLDS 96 CD'S)



Kodak Silver Ultima CD-R (100 Pack) Jewel Case 74 Min 650MB (880-6887)

Only £64.91 +VAT

Online 04-18-30

TDK



TDK DDS-2 4MM 4GB 120M Data Cartridge Buy 10 get 1 free Cleaning Cartridge

Only £59.65 +VAT

Online 04-14-23

iomega

Iomega PC250 Zip formatted Grey Disks (5 Pack) +Iomega Zip 250MB Wallet Free (Holds 6 Zips)



FREE ZIP WALLET (HOLDS 6 ZIP'S)

Only £58.26 +VAT

Online 04-30-86

TDK



TDK (10 Pack) Reflex 80 Min 700MB CD-R +CD Holder Free (Holds 12 CDs) Limited offer

FREE CD HOLDER (HOLDS 12 CD'S)



Only £11.57 +VAT

Online 04-22-85



HP 20-40/35-70/40-80GB Dlt Tape IV (C5141F) (10 Packs)

Only £505.13 +VAT

Online 04-42-24

+ 2 FREE CLEANING CARTRIDGES



HP 4MM 12GB 125M Data Cartridge (C5708A)

Only £139.50 +VAT

Online 06-31-01



Only £205.60 +VAT

Online 04-95-02

Sony DDS-4 150M 4MM 20GB-DGD-150P Data Cartridge

SONY®

Lower prices on-line at action.com

GUIDE TO MAGNETIC MEDIA

Removable Storage

3½" floppy diskettes have gradually replaced 5¼" format as the standard for removable storage. However, whilst the concept of storing and transporting data is as popular as ever, the inability to store more than 1.44MB is a hindrance, especially with today's space hungry files. In light of this the development of Iomega's Zip (100MB) and Imation's Laser-Servo technology (SuperDisk 120MB) has seen a gradual shift away from the standard floppy. SyQuest have entered the market with their 230MB EZFlyer and at the next level with their 1GB SpaQ, which is pitched to compete with Iomega's 1GB Jaz. Iomega have recently raised the capacity of removable storage by introducing the 2GB Jaz.

CD-R/RW

CD-Recordable disc (CD-R) is an incredibly low cost 'write once' recording medium which can store up to 650MB of data on a single CD-R disc. The development of a rewritable CD (CD-RW) allows for writing and re-writing over 1000 times on a single CD-RW disc, albeit at 650MB. The recording layer has an alloy compound which can be subsequently heated, cooled and re-heated – allowing for writing and rewriting, and this process is called 'phase change'. This means CD-R can be used for low capacity archiving, and CD-RW is especially suitable for editing and recording applications. CD-RW is also seen as 'bridge technology' between CD and the long awaited DVD (Digital Versatile Disc).

DLT

DLT (Digital Linear Technology) has grown increasingly popular at the mid-to-high-end of the storage market in recent years. Bought by Quantum Coporation in 1994, the key attributes which make DLT so attractive are its high storage capacity (currently up to 70GB compressed), fast transfer rates and back-up speed, its sophisticated error detection, and its correction methods which help ensure maximum reliability. Overall, these features have made DLT an extremely trusted storage medium with high end users.

4mm DAT

DAT (Digital Audio Tape) is typically used and recognised as the standard for mid-range backup. DDS (Digital Data Storage) has been defined as the industry-wide format with the current standard being DDS-3, which uses 125m tape and can store 12GB/24GB (native/compressed) capacity. There is a clear development path for DDS as capacities tend to double the preceding DDS standard every two years due to better use of tape and longer tape lengths. In line with this, DDS-4 is due to arrive in the marketplace in early 1999 with a reported capacity of 40GB (compressed).

DVD

DVD – Digital Video Disk or Digital Versatile Disk is the next generation development of the CD. With the improvements in the precision of manufacture and playback technologies, DVD can store up to 17GB of information, compared with just 0.65GB on a standard CD.

8mm/AIT

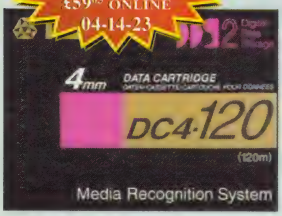
The development of 8mm Mammoth, offering 20GB compressed capacity, met the growing need for higher capacity, fast transfer rates and rapid search speeds. In late 1996, Sony pioneered their AIT (Advanced Intelligence Tape) technology – pitched at medium – to high-end systems and directly in competition with DLT (AIT media has equal or better reliability than DLT). Capacity is 50GB with compression.

QIC/Travan

QIC (Quarter Inch Cassette) technology is found in several forms – mini DC2000 (devised by Sony) and full-size DC6000 and is essentially a low-end, low capacity solution. The main thrust of QIC is however Travan (trademarked by Imation) which offers lower-range storage (Travan-1 & 3) and a higher end 8GB Travan-4. Imation have recently introduced their NS20GB format for increased capacity. Initially aimed at the standalone PC, recent advances (hardware compression, increased capacity, read after write verification) have opened Travan up to server environments.

Optical

Available in two main formats – write once (WORM) and rewritable (Magneto Optical – MO), optical solutions are particularly useful where there is a long-term storage requirement i.e. data libraries. This is because optical media is well renowned for its long-term durability, resilience and reliability and is specifically engineered for long term archival.







OTHER ITEMS

FOR CD-MEDIA SEE PAGES 1046–1051

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

REMOVABLE DISK CARTRIDGES & DATA CARTRIDGES

REMOVABLE DISK CARTRIDGES

ZIP™ Removable Disks

Increase your storage quickly, easily and economically. Zip disks combine the capacity of a hard drive with the removability and convenience of a floppy.

- For use with Iomega Zip drive.
- 100MB/250MB formatted capacity.
- Available in both IBM® and Macintosh® formatted versions.
- Allows you to expand storage without limits, 100MB/250MB at a time.
- Perfect for backup and file portability.

See P.278 for Clik drives & hardware



ZIP

DESCRIPTION	CAPACITY	UNIT/ PACK	CAT NO	Web Price	PRICE EACH (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Iomega Mac Formatted Coloured Zip Disks	100MB	6	11-50-29	40.17	42.95	41.66	40.41	
Iomega PC Formatted Zip Disks	100MB	10	11-50-43	57.85	65.95	65.29	64.64	✂
Iomega Mac Formatted Zip Disks	100MB	10	11-50-36	68.58	69.95	69.45	69.05	
Iomega PC Formatted Zip Disks + QuickSync Multicolour (3 pack)	100MB	3	11-17-76	18.88	19.75	19.55	19.36	NEW
Iomega Mac Formatted Zip Disks + Quicksync Multicolour (3 pack)	100MB	3	11-31-04	18.88	19.75	19.55	19.36	NEW
Iomega PC Formatted Grey Zip Disks	250MB	1	11-51-84	11.54	12.95	12.56	12.18	✂
Iomega Mac Formatted Grey Zip Disks	250MB	1	11-51-91	12.38	12.95	12.82	12.69	✂
Iomega PC Formatted Grey Zip Disks	250MB	5	04-30-86	58.26	60.95	60.34	59.74	
Iomega PC Zip Disks	250MB	10	04-53-66	107.12	◗	110.95	109.84	
Laser Zip Diskette Labels (25 pack)	—	25	50-33-25	9.80	10.25	10.15	10.05	

CLIK 40MB

Iomega Clik Disks	40MB	2	11-17-67	19.07	19.95	19.75	19.55	
Iomega Clik Disks	40MB	4	23-30-90	31.49	32.95	32.62	32.29	
Iomega Clik Disks	40MB	10	23-53-47	67.95	69.50	69.29	69.19	

JAZ 2GB

Iomega PC Formatted Jaz Disks	2GB	1	11-43-67	63.02	64.95	64.30	63.66	
Iomega PC Formatted Jaz Disks	2GB	3	11-33-06	155.45	◗	159.95	158.35	
Iomega Mac Formatted Jaz Disks	2GB	3	11-33-13	155.59	◗	159.95	158.35	

OTHER ITEMS
FOR CD-ROM DRIVES SEE PAGE 243
FOR CD WRITERS SEE PAGES 249–258
FOR DISK STORAGE SEE PAGES 526–532

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

REMOVABLE DISK CARTRIDGES & DATA CARTRIDGES



BUY AN IOMEGA 250MB ZIP DISK (5 PACK) GET AN IOMEGA ZIP WALLET FREE (Holds 6 Zip Disks) 04-30-86

iomega.

REMOVABLE DISK CARTRIDGES

ZIP

DESCRIPTION	FORMAT	QTY/BOX	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
250MB PC Zip Disk (Grey) **(5 pack)** + Iomega Zip Wallet Free (holds 6 disks)	PC	5	04-30-86	58.26	60.95	60.34	59.74
250MB PC Zip Disk (Grey) **(10 pack)**	PC	10	04-53-66	107.12	▶	110.95	109.84
250MB MAC Zip Disk (Grey)	MAC	1	11-51-91	12.38	12.95	12.82	12.69
AVERY Laser Zip Diskette Labels 59×51mm	—	—	50-33-25	9.80	10.25	10.15	10.05

OnStream

OnStream Media

DESCRIPTION	PART NO.	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
ADR Cleaning Cartridge	ADR-Cleaner	11-17-58	31.76	32.95	31.96	31.85
ADR 30GB Cartridge **(1 pack)**	ADR30-03	11-30-87	28.63	29.95	29.65	29.35
ADR 30GB Cartridge **(3 pack)**	ADR30-04	11-53-45	72.59	75.95	75.19	74.44
ADR 50GB Cartridge **(1 pack)**	ADR50-03	11-94-77	36.48	40.95	39.72	38.53
ADR 50GB Cartridge **(3 pack)**	ADR50-04	11-17-19	96.77	97.45	97.28	97.05

OTHER ITEMS

FOR STORAGE DRIVES SEE PAGES 215–232, 250–278
FOR DISK STORAGE SEE PAGES 526–532

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

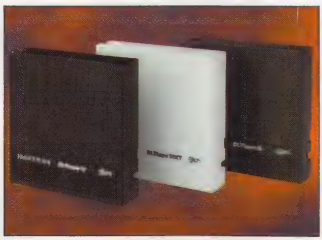
DLT

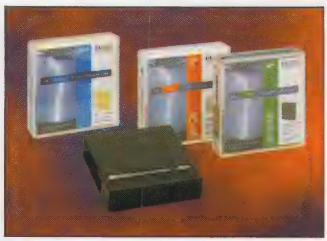
The recent growth of **DLT** technology is founded on several bases which have made this an increasingly popular storage medium. DLT (Digital Linear Tape) was orginally pioneered by DEC in 1990. with Quantum Corporation buying the technology in 1994. Key attributes of DLT are:

- Fast transfer and back-up speeds. Sophisticated error detection.
- Correction methods, for maximum reliability. High storage capacity.

Given the high transfer rate and storage capacity provided by this technology, manufacturers view DLT as the basis for high-end autoloader storage subsystems.







DLT 10/20GB

DESCRIPTION	QTY PER BOX	CAT NO	Web Price	PRICE PER BOX £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Compaq 10/20GB DLT Tape	1	96-41-77	33.81	37.95	36.81	35.71
Quantum 10/20GB DLT Tape	1	11-47-52	22.70	23.75	23.51	23.28

DLT 15/30GB

DESCRIPTION	QTY PER BOX	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Imation 15/30GB DLT Tape	1	11-31-86	27.67	28.95	28.66	28.37
Imation 15/30GB DLT Tape Multipack	10	06-51-62	268.35	▶	277.95	275.17
HP 15/30GB DLT Tape	1	84-38-10	25.35	28.45	27.60	26.77
HP 15/30GB DLT Tape Multipack	10	04-41-69	236.01	▶	256.95	249.24
HP 15/30GB Tape Multipack	25	04-41-76	669.80	▶	693.75	686.81
Sony 15/30GB DLT Tape	1	11-47-76	27.57	30.95	30.02	29.12
Sony 15/30GB DLT Tape	10	04-31-09	268.35	▶	277.95	275.17
Quantum 15/30GB DLT Tape	1	84-87-05	32.92	36.95	35.84	34.77
Quantum 15/30GB Tape Multipack	10	04-41-83	329.70	▶	358.95	348.18
Quantum 15/30GB DLT Tape Multipack	25	04-41-90	808.23	▶	879.95	853.55
Quantum DLT Cleaning Tape	1	11-35-64	32.92	36.95	35.84	34.77
Compaq 15/30GB DLT Tape	1	84-05-52	35.63	39.99	38.79	37.63
Compaq 15/30GB DLT Tape	7	11-21-56	239.39	▶	247.95	245.47
Compaq 15/30GB DLT Tape Multipack	10	04-42-17	560.89	▶	580.95	575.14

OTHER ITEMS
FOR TAPE DRIVES SEE PAGES 266–274

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

DLT



DLT 20-40/35-70/40-80GB TAPE IV*

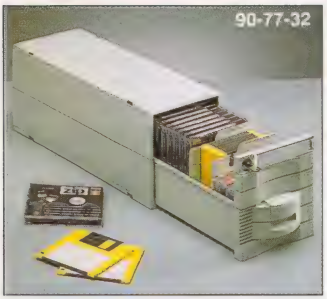
DESCRIPTION	QTY PER BOX	CAT NO	Web Price	PRICE PER BOX £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
HP 20-40/35-70/40-80GB DLT Tape IV	1	84-73-66	53.75	56.95	55.95	55.25
HP 20-40/35-70/40-80GB DLT Tape IV	10	04-42-24	505.13	➧	549.95	533.45
Imation 20-40/35-70/40-80GB DLT Tape IV	1	11-31-93	48.96	54.95	53.30	51.70
Imation 20-40/35-70/40-80GB DLT Tape IV	10	06-51-55	486.76	➧	529.95	514.05
Sony 20-40/35-70/40-80GB DLT Tape IV	1	11-47-83	48.96	54.95	53.30	51.70
Sony 20-40/35-70/40-80GB DLT Tape IV	10	06-66-73	486.76	➧	529.95	514.05
Quantum 20-40/35-70/40-80GB DLT Tape IV	1	98-25-13	58.10	62.95	61.06	59.23
Quantum 20-40/35-70/40-80GB DLT Tape IV	10	04-42-31	569.45	➧	595.95	578.07
Compaq 20-40/35-70/40-80GB DLT Tape IV	7	45-37-12	439.29	➧	455.00	450.45
HP DLT Cleaning Tape	1	84-38-27	38.18	39.95	39.55	39.15
Quantum DLT Cleaning Tape	1	11-35-64	32.92	36.95	35.84	34.77
Compaq DLT Cleaning Tape	1	84-05-83	35.59	39.95	38.75	37.59

*Using DLT 7000 hardware.

OTHER ITEMS
FOR CD-ROM DRIVES SEE PAGE 243
FOR CD WRITERS SEE PAGES 249–258

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

REMOVABLE MEDIA STORAGE AND LABELS







Cassetta 2000
Professional media storage system for all your media. Stackable horizontally and vertically. Made of high impact plastic material, inclusive of metal lock, dividers, labels and clips. Available in 3 formats.

Triple Disk Drawer Stores:
- 60 Zip.
- 81 LS-120.
- 261 × 3½" Disks.
- 33 Travan.
- 33 DC 1000/2000.

Multimedia Drawer Stores:
- 75 Zip.
- 74 CDs.
- 32 Jaz.
- 24 DLT.
- 300 × 3½" disks.
- 117 LS-120.



Turn to page 531 for more details.

EXPONENT

DESCRIPTION	CAPACITY	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Exponent Media Solutions Zip Drawer and Additional Dividers	25	04-06-06	11.28	14.95	14.50	14.00
Exponent Media Solutions Zip Drawer	25	90-77-32	8.50	11.35	11.01	10.68
Exponent Zip Drive Carrying Bag	—	46-82-02	14.98	17.45	16.75	16.08
Exponent Cassetta 2000 Multimedia Drawer	—	47-46-29	17.75	19.95	19.75	19.65
Exponent Cassetta 2000 Triple Disk Drawer	—	47-47-15	17.77	19.95	19.35	18.77
Kensington Quicktrieve for Zip (**3 pack**)	10	04-27-83	14.21	15.95	15.47	15.01
Kensington Zip Cube	10	46-81-92	3.47	3.90	3.78	3.67
Kensington Z Cube (**3 pack**)	10	06-46-82	7.97	8.95	8.68	8.42

LABELS PART NO.	DESCRIPTION	SIZE (mm)	LABELS/ SHEET	SHEETS/ BOX	CAT NO.				
L7668	Laser Zip Diskette	70 × 71.9	1	25	50-33-25	9.80	10.25	10.15	10.05
L7669	Laser LS-120 Diskette	70 × 71.9	1	25	50-33-32	10.20	11.45	11.11	10.77

OTHER ITEMS *FOR DATA STORAGE SEE PAGES 526–532*

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

COMPACTAPE & LS-120 DISKETTES

COMPACTAPE

DESCRIPTION	QTY PER BOX	CAT NO	Web Price	PRICE PER BOX £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DEC CompacTape for TK85/86 Drive	1	80-40-62	34.36	35.95	35.59	35.23
DEC CompacTape for TK85/86 (Multipack)	10	04-42-55	256.77	◗	265.95	263.29
DEC CompacTape for TK88	1	84-02-91	56.98	63.95	62.03	60.17

3480/3490 DATA CARTRIDGES

IBM 3480/3490 Cartridge	1	80-21-29	4.73	4.95	4.90	4.85
Imation (3M) 3480 Royal Guard Cartridge	1	80-19-17	2.98	3.70	3.45	3.40
Imation (3M) 3490E E-Cart Cartridge	1	80-40-79	5.30	5.95	5.77	5.60

LS-120 FORMATTED DISKETTES





FOR LS-120 LABELS SEE PAGE 1030

Today, 3½" diskettes are the standard in removable data storage technology. The emergence of **LS-120** technology will eventually supersede today's floppy diskette as the new standard. LS-120 diskettes are just as easy to use as 3½" diskette technology and LS-120 drives are backwardly compatible with standard floppy disks, allowing you to access all your stored data with no loss or inconvenience. Most importantly, LS-120 diskettes can store over 80 times the capacity of standard 3½" – 120MB, hence the name LS-120.

www.imation.com

IMATION 3M

DESCRIPTION	QTY PER BOX	CAT NO	Web Price	PRICE PER BOX £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Imation LS-120 SuperDisk **(for DOS)**	3	11-27-23	22.18	24.90	24.15	23.43
Imation LS-120 SuperDisk **(for MAC)**	5	11-49-27	38.18	39.95	39.55	39.15
Imation LS-120 SuperDisk **(for DOS)**	10	11-27-47	61.89	64.75	64.10	63.46
Imation LS-120 SuperDisk **(for DOS)** 2 Standard Disks+1 Encrypted Disk	3	11-17-57	23.12	25.95	25.17	24.42
Imation LS-120 SuperDisk Encrypted **(for DOS)**	3	11-30-86	23.57	26.45	25.66	24.89
Imation LS-120 SuperDisk Head Cleaning Kit	1	22-91-73	13.14	13.75	13.61	13.48

OTHER ITEMS

FOR TAPE DRIVES SEE PAGES 266–274

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

DVD (DIGITAL VERSATILE DISC)





TDK maxell

DESCRIPTION	CAPACITY	UNIT/PACK	CAT NO	Web Price	PRICE PER BOX £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
TDK Rewritable Double-sided DVD-RAM	5.2GB	1	11-94-79	24.01	26.95	26.14	25.36
TDK WriteOnce DVD-R	3.95GB	1	11-50-81	23.07	25.89	25.11	24.36
TDK Rewritable Single sided DVD-RAM	2.6GB	1	11-30-94	17.77	19.95	19.35	18.77
Maxell Rewritable Double-sided DVD-RAM	5.2GB	1	11-50-67	22.23	24.95	24.20	23.48
Maxell WriteOnce DVD-R	3.95GB	1	11-50-74	38.18	39.95	39.55	39.15
Maxell Rewritable Single-sided DVD-RAM	2.6GB	1	11-52-56	17.37	19.50	18.92	18.35

OTHER ITEMS
FOR DVD DRIVES SEE PAGES 256–257

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CD-RW COMPACT DISC – REWRITABLE



The ability to write and then re-write to a CD has to be amongst the most exciting new innovations in data storage since CD-ROMs became available in the mid-1980s. With new rewritable CDs (CD-RW), the recording layer has a new alloy compound which can be reversibly altered by a process known as 'phase change', allowing you to wipe old information and update, i.e. rewrite. CD-RW is therefore ideal for many uses from high resolution editing, audio recording samples, and any other on-line editing through to multimedia presentations, software and system back-up.

74 MINUTE CD-RW

SONY

SEE PAGE 1066 FOR SONY PROMOTION

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Sony 74 minute CD-RW	11-34-61	3.78	3.95	3.91	3.87
Sony 74 minute CD-RW (**5 pack**)	06-31-19	33.69	39.25	37.68	36.17
Sony 74 minute CD-RW (**10 pack**)	06-17-80	36.75	38.45	38.07	37.68

74 MINUTE CD-RW

hp invent

HP 74 minute CD-RW (**10 pack**) + **2 FREE HP 74 min CD-R**	11-50-50	35.59	39.95	38.75	37.59

74 MINUTE CD-RW

IMATION 3M

Imation 74 minute CD-RW	11-45-25	4.41	4.95	4.80	4.66

74 MINUTE CD-RW

TDK

TDK 74 minute CD-RW	11-32-72	3.52	3.95	3.83	3.72
TDK 74 minute CD-RW (**5 pack**)	06-05-21	17.33	19.45	18.87	18.30

OTHER ITEMS

FOR CD-WRITERS SEE PAGES 249–258

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CD-R COMPACT DISC-RECORDABLE

74 MINUTE CD-R

TDK

TDK Reflex – a disc of superlative performance, reliability, quality and versatility – in silver, blue, red or green. **New Reflex 80 Minute CD-R NOW AVAILABLE.**

DESCRIPTION	CAT NO	Web Price	PRICE PER PACK £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
TDK Reflex 80 minute 700MB CD-R (10 pack)+CD Storage holder while stocks last (holds 12 CD-Rs)*	04-22-85	11.57	12.99	12.60	12.22	✂
TDK Reflex 80 minute 700MB CD-R (**25 pack**)	04-53-77	27.19	28.45	28.17	27.88	NEW
TDK I-Storage Reflex 74 minute CD-R (**25 pack**) (featuring storage box & tyvek paper sleeves)	11-17-66	21.61	24.25	23.52	22.82	
TDK Reflex 74 minute CD-R (**25 pack**) (Standard-Jewel cases)	04-66-48	22.23	24.95	24.20	23.48	✂
TDK Reflex 74 minute CD-R (**50 pack**) (Standard)	04-53-46	43.61	48.95	47.48	46.06	
TDK Reflex 74 minute 650MB CD-R (**100 pack**) + Carrying Bag FREE while stocks last*	04-17-89	65.43	68.45	67.77	67.09	
TDK Reflex 74 minute CD-R (**10 pack**) (Metallic)	04-17-17	11.62	12.45	12.00	11.75	
TDK Reflex 74 minute CD-R (**10 pack**) (Blue)	04-95-59	11.62	12.45	12.00	11.75	
TDK Reflex 74 minute CD-R (**10 pack**) (Red)	04-95-66	11.62	12.45	12.00	11.75	
TDK Reflex 74 minute CD-R (**10 pack**) (Green)	04-95-73	11.62	12.45	12.00	11.75	
TDK 74 minute CD-R (**Inkjet Printable**) (**10 pack**)	04-96-76	12.43	13.95	13.53	13.13	✂
TDK CD-ROM Lens Cleaner	11-30-92	7.60	7.95	7.87	7.79	
TDK CD-R Pens (**4 Colour Pack**)	11-51-15	2.54	2.85	2.76	2.68	

*Please note that due to manufacturing process employed to increase the capacity of the disc, 700MB/80 minute CD-Rs are not compatible with some older versions of recording hardware and software. Models that will exhibit difficulties include the Sony CRX100, Hewlett Packard 8100 and Yamaha CDD3610. To the uniniated, this may appear to be a quality issue. This is not the case and should not be seen as a reflection on reliability of either the hardware or disc media. Most up-to-date versions of hardware have been adjusted to accommodate this incompatibility.

***See page 1070.**



74 MINUTE CD-R

SONY

DESCRIPTION	CAT NO	Web Price	PRICE PER PACK £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Sony 74 minute CD-R	10-87-37	1.07	1.20	1.16	1.13	✂
Sony 74 minute CD-R (**10 pack**)	04-43-27	11.81	13.25	12.85	12.47	
Sony 74 minute CD-R (**25 pack**)	04-43-34	22.23	24.95	24.20	23.48	✂
Sony 74 minute CD-R with Protective Sleeves (**25 pack**)	11-17-80	17.63	18.45	18.27	18.08	NEW
Sony 74 minute CD-R (**50 pack**)	06-62-19	43.61	48.95	47.48	46.06	✂
Sony 74 minute CD-R (**100 pack**)	04-31-07	85.98	89.95	89.05	88.16	✂
Sony 80 minute CD-R (**10 pack**)	11-31-08	8.46	9.50	9.22	8.94	

***See page 1066 for Sony promotion.**

OTHER ITEMS

FOR CD WRITERS SEE PAGES 249–258
FOR CD-ROM DRIVES SEE PAGE 243
FOR DISK STORAGE SEE PAGES 526–532

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CD-R COMPACT DISC – RECORDABLE

SAVE MORE WITH ACTION CD-R MULTIPACKS!



HP CD-Labeler II – unlimited creativity for your CD labels!

The HP CD-Labeler II now provides you with a complete solution that ensures precisely centred labels are applied to your CDs. Labels can be printed on any inkjet or laser printer!

CONTENTS:

- CD Labeler II.
- Labeling software for Win 3.x, Win 95/98, Win NT and MAC.
- 10 special labels.
- 2 Jewel case inserts.
- Approx. 100 high quality photos.



SPECIAL PRICE OFFER £13.32 ONLINE
49-39-54



74 MINUTE CD-R

DESCRIPTION	CAT NO	Web Price	PRICE PER PACK £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
HP 74 minute CD-R **(25 Pack)**	11-52-49	19.56	21.95	21.29	20.65
HP 74 minute CD-R **(100 Pack)**	04-94-85	65.00	68.00	67.32	66.65
HP 74 minute CD-R **(with scratchguard sleeves – 10 pack)**	11-53-49	11.54	12.95	12.56	12.18
MEDIA FOR HP CD LABELER II					
CDX7500E HP CD-Labeler II Kit	49-39-54	13.32	14.95	14.50	14.07
CDX8040E HP CD-Labeler II Labels (**40 pack**)	49-40-56	8.86	9.95	9.65	9.36
CDX8020E HP CD-Labeler II Inlays (**20 pack**)	49-40-63	9.51	9.95	9.85	9.75
MEDIA FOR HP CD LABELER I					
CDR3000A Additional CD Labels **(HP CD Labeler I only – 30 pack)**	68-32-76	7.97	8.95	8.68	8.42
CDR6000A Additional CD Labels **(HP CD Labeler I only – 60 pack)**	68-32-83	10.65	11.95	11.59	11.24
CDR5010A CD Covers + Inlay Cards **(HP CD Labeler I only – 10 pack)**	45-79-83	6.01	6.75	6.55	6.35

OTHER ITEMS
FOR CD WRITERS SEE PAGES 249–258
FOR CD-ROM DRIVES SEE PAGE 243
FOR DISK STORAGE SEE PAGES 526–532

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CD-R COMPACT DISC – RECORDABLE/CD REPAIR KITS



74 MINUTE CD-R

IMATION 3M

DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Imation 74 minute CD-R	11-16-45	1.04	1.10	1.09	1.08	
Imation 74 minute CD-R **(25 pack)**	04-43-41	22.23	24.95	24.20	23.48	✂
Imation 74 minute CD-R **(50 pack)**	06-62-26	43.61	48.95	47.48	46.06	✂
Imation 74 minute CD-R **(100 pack)**	04-17-30	65.00	68.00	67.32	66.65	

CD REPAIR KIT

PRESSIT



DESCRIPTION	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
PressIT CD Repair Kit **(25 repairs)**	46-17-61	6.19	6.95	6.74	6.54	✂

OTHER ITEMS
FOR CD WRITERS SEE PAGES 249–258
FOR BULK CD-R SEE PAGE 243
FOR DISK STORAGE SEE PAGES 526–532

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CD/DVD LABELS – CD INSERTS

AVERY





	PART NO	SIZE	DESCRIPTION	LABELS/ SHEET	LABELS/ BOX	CAT NO	Web Price	PRICE PER PACK £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	J8676-25	117.0 dia	Inkjet	2	25	46-17-27	6.64	7.45	7.23	7.01
NEW	C9660-25	117.0 dia	Photo Quality Glossy Inkjet	2	25	46-12-50	11.42	11.95	11.83	11.71
NEW	J8770-25	117.0 dia	Premium Matt Inkjet (Replaces J8760-25)	2	25	46-22-68	8.08	8.45	8.37	8.28
NEW	J8570-25	117.0 dia	Clear Inkjet	2	25	46-49-51	11.42	11.95	11.83	11.71
	L7676-25	117.0 dia	Black & White Laser (Replaces L7660-25)	2	25	46-08-43	6.64	6.85	6.88	6.81
NEW	L7676REV-25	117.0 dia	Removable Black & White Laser (Replaces L7660REV-25)	2	25	46-39-00	7.97	8.95	8.68	8.42
	L7760-25	117.0 dia	Glossy Colour Laser	2	25	46-27-77	11.09	12.45	12.08	11.71
	J8431-25	121 × 242	CD Insert Cover Inkjet	1	25	46-30-95	8.55	8.95	8.86	8.77
	J8432-25	138 × 117	CD Insert Tray Inkjet	2	25	46-53-51	8.55	8.95	8.86	8.77
	CD KIT									
	S1700	117.0 dia	Full Face CD/DVD Presenter Kit	—	—	46-36-84	7.12	7.45	7.38	7.30

CD STORAGE

Kodak





Kodak Silver Ultima CDR (100 Pack) + Expanent CD Library (Holds 96 CDs) ONLY £64.91 ONLINE 04-18-30

	DESCRIPTION	CAPACITY	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
NEW	Spindle Gold KSP 74min (CD-R)	50	11-31-05	32.93	34.45	34.11	33.76
NEW	Spindle Gold NSP 74min (CD-R)	50	11-53-54	31.49	32.95	32.62	32.29
NEW	Spindle Gold Inkjet Printable 74min (CD-R)	50	11-45-63	35.80	37.45	37.08	36.70
NEW	Silver Ultima 80min (CD-R)	10	11-17-77	6.64	6.95	6.88	6.81
NEW	Silver Ultima 74min 650MB (CD-R)	30	04-53-80	18.93	21.25	20.61	19.99
NEW	Silver Ultima 74min 650MB (CD-R)	50	04-95-07	30.51	34.25	33.22	32.23
NEW	Silver Ultima 74min 650MB (CD-R)+CD Holder FREE	—	04-18-30	64.91	72.85	70.66	68.54

OTHER ITEMS

FOR BLANK CD MEDIA SEE PAGES 1046–1047

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

CD STORAGE



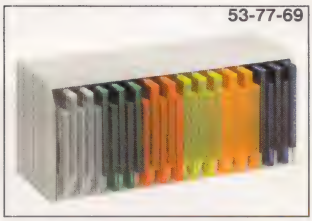
Exponent CD Wallet



Accodata CD Wet Suits



Belkin CD Wallet



Exponent CD Personal Box

FEATURES:
- Holds 30CDs with Jewel Case.



Exponent CD-ROM Drawer stores:
- 28 CD-ROMs with Jewel cases.
- 27 ZIP cartridges.
- 16 Travan cartridges.
- 90½" diskettes.
- 16 DC 1000/2000 cartridges.
- 42 LS120.



Exponent CD Personal Library

FEATURES:
- Holds 96 CDs without case.
- 8 Slot base holds the modules (×8).
- Stackable with other similar

BELKIN

Accodata

EXPONENT

DESCRIPTION	CAPACITY	CAT NO	Web Price	PRICE EACH £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Belkin CD Wallet	12	22-51-69	7.12	7.99	7.75	7.52
Belkin CD Wallet	24	12-10-05	10.68	11.99	11.63	11.28
Belkin CD Wallet	36	38-29-09	15.14	16.99	16.48	15.99
Exponent CD Wallet (Black)	20	68-61-49	7.08	7.95	7.71	7.48
Exponent CD Wallet (Black)	40	68-61-63	9.76	10.95	10.62	10.30
Accodata CD Wet Suits (Black)	24	12-05-64	7.80	8.75	8.49	8.23
Exponent CD Personal Box	30	53-77-69	6.00	8.00	7.76	7.53
Exponent CD Personal Library	96	64-77-74	8.50	11.99	11.63	11.28
Exponent Media Solutions CD-ROM Drawer	28	90-77-56	10.65	11.95	11.59	11.24

OTHER ITEMS FOR DATA STORAGE SEE PAGES 526–532

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

4mm DATA TAPES

4mm DAT (Digital Audio Tape) technology has in recent years become the recognised standard for medium-sized back-up. An industry-wide format for storing data has been defined, called DDS – Digital Data Storage. The current standard is DDS-3, using 125m tape, storing 12/24GB (Native/Compressed) capacity, and with data transfer of 1.2MB/second. DDS has a development path mapped out that will see each new generation probably double the capacity and transfer rate of the preceeding format.



BUY 10 × HP 125m DATA TAPE 06-31-01 AND GET A FREE HP 4mm CLEANING TAPE ONLY £139.50 ONLINE

4mm DATA TAPES

hp invent

PART NO	DESCRIPTION	CAPACITY	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
C5705A	4mm 60m Data Tape	1.3GB	11-52-01	4.32	4.85	4.70	4.56
C5705A	4mm 60m Data Tape (**10 pack**)	1.3GB	06-56-43	42.72	47.95	46.51	45.12
C5706A	4mm 90m Data Tape	2.0GB	11-52-18	2.58	2.90	2.81	2.73
C5706A	4mm 90m Data Tape (**10 pack**)	2.0GB	06-56-12	25.35	28.45	27.60	26.77
C5707A	4mm 120m Data Tape	4.0GB	11-52-25	5.95	6.95	6.74	6.54
C5707A	4mm 120m Data Tape (**10 pack**)	4.0GB	06-56-29	59.00	67.95	65.91	63.93
C5708A	4mm 125m Data Tape	12GB	11-52-32	14.35	16.25	15.76	15.29
C5708A	4mm 125m Data Tape (**10 pack**) + free cleaning cartridge	12GB	06-31-01	139.50	◗	154.95	150.30
✂ C5718A	4mm 150m Data Tape	20GB	11-30-95	25.95	27.95	27.67	27.39
C5718A	4mm 150m Data Tape (**10 pack**)	20GB	04-95-00	255.80	◗	264.95	262.30
C5709A	4mm Cleaning Tape (**2 pack**)	N/A	10-92-31	11.80	13.75	13.20	12.67

4mm DATA TAPES

SONY

DG-60M	4mm 60m Data Tape	1.3GB	10-62-65	1.90	1.99	1.97	1.95
DG-60M	4mm 60m Data Tape (**10 pack**)	1.3GB	04-12-89	16.97	17.75	17.57	17.40
DG-90P	4mm 90m Data Tape	2.0GB	10-67-77	2.45	2.75	2.67	2.59
DG-90P	4mm 90m Data Tape (**10 pack**)	2.0GB	04-12-96	23.57	26.45	25.66	24.89
DGD120P	4mm 120m Data Tape	4.0GB	10-77-21	5.75	6.45	6.26	6.07
DGD-120P	4mm 120m Data Tape (**10 pack**)	4.0GB	04-13-06	56.98	63.95	62.03	60.17
DGD-125M	4mm 125m Data Tape	12GB	84-52-27	14.66	16.45	15.96	15.48
DGD-125M	4mm 125m Data Tape (**10 pack**)	12GB	04-13-13	146.00	◗	158.95	154.18
✂ DGD-150P	4mm 150m Data Tape	20GB	11-53-48	25.95	27.95	27.68	27.35
NEW DGD150P	4mm 150m Data Tape (**10 pack**)	20GB	04-95-02	255.80	◗	264.95	263.85
DG-5CL	4mm Cleaning Tape	N/A	10-62-58	6.19	6.95	6.74	6.54
DG-5CL	4mm Cleaning Tape (**5 pack**)	N/A	04-13-20	28.91	32.45	31.48	30.53

See page 1066 for Sony promotion.

OTHER ITEMS

FOR TRAVAN TAPE DRIVES SEE PAGE 268, 272–274
FOR DISK STORAGE SEE PAGES 526–532

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

4mm DATA TAPES

4mm DATA TAPES

IMATION 3M

PART NO	DESCRIPTION	CAPACITY	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DDS-60	4mm 60m Data Tape	1.3GB	10-72-88	3.79	3.95	3.91	3.87
DDS-60	4mm 60m Data Tape (**10 pack**)	1.3GB	04-13-68	37.23	38.95	38.56	38.17
DDS-90	4mm 90m Data Tape	2.0GB	10-72-95	2.90	3.25	3.15	3.06
DDS-90	4mm 90m Data Tape (**10 pack**)	2.0GB	04-13-75	28.02	31.45	30.51	29.59
DDS-120	4mm 120m Data Tape	4.0GB	11-16-69	6.19	6.95	6.74	6.54
DDS-120	4mm 120m Data Tape (**10 pack**)	4.0GB	04-13-82	59.65	66.95	64.94	62.99
DDS-125	4mm 125m Data Tape	12GB	11-43-05	15.55	17.45	16.93	16.42
DDS-125	4mm 125m Data Tape (**10 pack**)	12GB	04-94-87	157.02	◗	170.95	165.82
DDS-4	4mm 150m Data Tape	20GB	11-22-63	25.79	28.95	28.08	27.24
45382	4mm Cleaning Tape	N/A	84-53-99	8.86	9.95	9.65	9.36
45382	4mm Cleaning Tape (**5 pack**)	N/A	04-13-99	41.05	42.95	42.52	42.10

4mm DATA TAPES

TDK

PART NO	DESCRIPTION	CAPACITY	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DC4-60	4mm 60m Data Tape	1.3GB	10-85-24	2.90	3.25	3.15	3.06
DC4-60	4mm 60m Data Tape (**10 pack**)	1.3GB	04-14-09	29.15	30.50	30.20	29.89
DC4-90	4mm 90m Data Tape	2.0GB	10-85-31	2.63	2.95	2.86	2.78
DC4-90	4mm 90m Data Tape (**10 pack**)	2.0GB	04-14-16	22.23	24.95	24.20	23.48
DC4-120	4mm 120m Data Tape	4.0GB	10-88-47	5.30	5.95	5.77	5.60
DC4-120*	4mm 120m Data Tape (**10 pack**)	4.0GB	04-14-23	52.52	58.95	57.18	55.47
DC4-125	4mm 125m Data Tape	12GB	11-34-23	14.66	16.45	15.96	15.48
DC4-125*	4mm 125m Data Tape (**10 pack**)	12GB	04-68-20	150.59	◗	163.95	159.03

*** + 1 Free Cleaning Cartrdige**

Receive a £5.00 Marks & Spencer Voucher FREE when you buy 20 TDK 4mm Data Tapes See page 1069



Buy TDK 120mm 10 pack and get 1 cleaning cartridge FREE £52.52 ONLINE 04-14-23



Buy TDK 125mm 10 pack and get 1 cleaning cartridge FREE £150.59 ONLINE 04-68-20

OTHER ITEMS

FOR TRAVAN TAPE DRIVES SEE PAGE 269, 271–274
FOR DISK STORAGE SEE PAGES 526–532

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

4mm STORAGE



Cassetta 2000 Multimedia Storage
A range of 3 high quality media storage drawers that enable you to create exactly the personal storage system you need, whilst ensuring ease of retrieval, security and unlimited growth.
The new Cassetta 2000 range has unrivalled storage capacity to enable you to store all your media in one place no matter how much you need to store. Just keep building as your storage needs grow.

FEATURES:
- Stand alone or stackable.
- Drawers contain a Media Stopper Bar that enables you to carry your media safely.
- The Mobile Top and Base can be used to build the system into a mobile pedestal.
- Units all include translucent blue internal dividers, metal lock and key, front label, connector clips.



Phoenix Data Safe 2000 Series fire safes are finished in textured white. Protects magnetic media for 1½ hours against fire (SP9OD).
- Protects magnetic media for 90 minutes against fire, dust, humidity, magnetic and electronic fields.
- High security keylock.
- Automatic door locking on models 2002/2003.

Model	Datacare 20001	Datacare 2002	Datacare 2003
Internal dimensions (H×W×D)	243×152×187mm	335×235×220mm	490×390×400mm
External dimensions (H×D×H)	430×350×420mm	590×450×460mm	795×650×700mm
Weight	57kg	96kg	265kg
Standard		A90	
Fittings	—	Optional	1 Shelf
Maximum Capacities			
3½" Disks	274	600	2960
5¼" Disks	192	370	3003
3M 6250 Data		—	
3M 8mm Tape	36	120	432
3m 4mm Tape	96	225	990
DC00 Data Cartridges	14	72	195
DC 000 Data Cartridges	48	128	624
3480 Data Cartridges	14	42	201

DESCRIPTION	CAPACITY	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Exponent Cassetta 2000 Double Drawer	—	47-46-98	17.75	19.95	19.75	19.65
Exponent Cassetta 2000 Triple Drawer	—	47-47-15	17.77	19.95	19.35	18.77
Exponent Cassetta Multimedia Drawer	72	47-46-29	17.75	19.95	19.75	19.65
Fellowes 4mm Data Cartridge Box (pic not shown)	10	12-00-38	9.79	10.99	10.66	10.34
Fellowes 8mm Data Cartridge Box (pic not shown)	10	12-00-45	7.46	7.75	7.67	7.60
Phoenix Data Safe 2001	—	11-11-88	199.99	➧	218.00	215.82
Phoenix Data Safe 2002	—	11-11-95	405.50	➧	420.00	415.80
Phoenix Data Safe 2003	—	11-12-05	815.82	➧	845.00	836.55

OTHER ITEMS
FOR DATA STORAGE SEE PAGES 526–532

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

8mm DATA TAPES

Recent advances in 8mm technology have seen the introduction of Mammoth – at up to 20GB compressed storage it meets the growing need for high capacity, fast transfer, and rapid search speed. The development of Sony's AIT technology, introduced to the storage market in late 1996, and seen as a high-end rival to DLT technology, has furthered this – offering up to 100GB compressed capacity on a single piece of AIT2 (Advanced Intelligence Tape) media.

See page 1066 for Sony promotion.



8mm DATA TAPES

SONY

PART NO	DESCRIPTION	CAPACITY	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
7301CL	SCE 8mm Tape Dispenser	—	68-45-12	8.87	9.95	9.65	9.36
QG-112M	8mm 112m Data Tape	2.3/5GB	10-55-03	3.07	3.45	3.35	3.25
QG-112M	8mm 112m Data Tape (**10 pack**)	2.3/5GB	04-12-27	31.97	33.45	33.12	32.78
QGD-160	8mm 160m Data Tape	3.5/7GB	10-88-30	6.17	7.35	7.25	7.15
QCD-160	8mm 160m Data Tape (**10 pack**)	3.5/7GB	04-12-34	67.42	72.95	71.95	71.25
QGD-170	8mm 170m Data Tape Mammoth	20GB	84-09-61	46.25	47.95	47.47	47.00
QG-CL1	8mm Mammoth Cleaning Tape	N/A	11-32-10	16.13	17.75	17.22	16.70

AIT TAPES

SONY

PART NO	DESCRIPTION	CAPACITY	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
SDX-TCL	Sony AIT Cleaning Tape	N/A	11-33-99	28.63	29.95	29.65	29.35
SDX1-25C	Sony AIT1 Tape	25/50GB	11-33-82	60.35	64.95	63.00	61.11
SDK1-35C	Sony AIT1 Tape	35/70GB	11-17-68	62.32	69.95	67.85	65.82
SDX2-36C	Sony AIT2 170m Tape	35/70GB	11-53-51	62.32	69.95	67.85	65.82
SD2-50C	Sony AIT2 230m Tape	50/100GB	11-30-98	80.14	89.95	87.25	84.63

8mm DATA TAPES

iMATION 3M

DS8-112	8mm 112m Data Tape	2.3/5GB	10-67-84	2.90	3.25	3.15	3.06
DS8-112	8mm 112m Data Tape (**10 pack**)	2.3/5GB	04-12-58	29.58	30.95	30.64	30.33
DS8-160	8mm 160m Data Tape	3.5/7GB	84-09-54	5.70	6.40	6.21	6.02
DS8-160	8mm 160m Data Tape (**10 pack**)	3.5/7GB	06-05-14	60.17	62.95	62.32	61.70
45383	8mm Cleaning Tape	N/A	84-54-09	13.74	15.45	15.25	14.95

OTHER ITEMS

FOR TRAVAN TAPE DRIVES SEE PAGES 269, 271–274

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

TRAVAN™ † 1, 2 & 3 CARTRIDGES



Imation (5pk) Travan NS-8 4/8GB data cartridge only £74.65 online
04-17-67



Imation (5pk) Travan NS-20 20GB data cartridge only £107.12 online
04-17-94





TRAVAN-1 (400MB/800MB)

DESCRIPTION	UNIT/PACK	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Imation Travan-1 Data Cartridge	10	06-62-33	112.91	116.95	116.95	115.78

TRAVAN-3 (1.6GB/3.2GB)

DESCRIPTION	UNIT/PACK	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Imation Travan-3 Data Cartridge	1	80-41-65	14.10	15.15	14.85	14.70
Imation Travan-3 Data Cartridge	10	06-62-40	140.80	◗	145.95	141.95
HP TR-3 Data Cartridge **(C4427A)**	1	84-77-99	22.35	23.95	23.45	22.95
HP TR-3 Data Cartridge **(C4427D)**	5	11-44-60	106.15	◗	109.95	108.85
Sony QTR-3 Data Cartridge	1	84-00-19	13.63	14.40	14.15	13.90
Sony QTR-3 Data Cartridge	5	04-93-22	67.92	70.00	69.80	68.90

†Travan is a registered Trademark of the Imation Corporation.

OTHER ITEMS

FOR TRAVAN DRIVES SEE PAGES 272

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
» Save £££'s!
» Check live stock
» Track order status

TRAVAN™* 4, 5 & NS CARTRIDGES



TRAVAN-4 (4GB/8GB)

DESCRIPTION	UNIT/PACK	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Imation Travan NS 8GB Data Cartridge	1	11-43-12	15.45	15.95	15.79	15.63	
HP TR-4 Data Cartridge **(C4425A)**	1	84-78-23	24.01	26.95	26.14	25.36	
HP TR-4 Data Cartridge **(C4425D)**	5	11-44-84	95.48	◗	103.95	100.83	
Sony QTR-4 Data Cartridge	1	84-00-26	15.99	17.95	17.41	16.89	
Sony QTR-4 Data Cartridge	5	04-93-39	70.79	79.45	77.07	74.75	
Maxell TR-4 Data Cartridge	1	11-48-17	15.42	16.95	16.45	16.00	

TRAVAN 5GB (2.5GB/5GB)

DESCRIPTION	UNIT/PACK	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
Imation Travan 5GB Data Cartridge	1	11-33-68	15.72	16.45	16.29	16.12	
C4429A Travan 5GB Data Cartridge	1	11-31-02	18.64	19.50	19.31	19.11	NEW
HP Travan 5GB Data Cartridge **(C4429D)**	5	11-44-91	80.24	83.95	83.11	82.28	

TRAVAN NS (8GB)

DESCRIPTION	UNIT/PACK	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Imation Travan NS 8GB Data Cartridge	1	11-43-12	15.45	15.95	15.79	15.63
Imation Travan NS 8GB	5	04-17-67	74.65	77.25	76.48	75.71

TRAVAN NS (20GB)

DESCRIPTION	UNIT/PACK	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Imation Travan NS 20GB Data Cartridge	1	11-43-29	23.80	24.90	24.65	24.40
Imation Travan NS 20GB Data Cartridge	5	04-17-94	107.12	◗	110.95	109.84
HP TR-5 20GB Data Cartridge	5	11-49-96	130.30	◗	133.95	132.61

*Travan is a registered Trademark of the Imation Corporation.

OTHER ITEMS

FOR TRAVAN DRIVES SEE PAGES 269, 271–274

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

RE-WRITABLE OPTICAL DISKS (MO)

SONY.

Sony's Magneto Optical (MO) media offers the latest in media storage technology. With their range of rewritable optical media you can ensure that stored data stays as good as new into the next century. All Sony disks are certified and conform to ISO standards, are durable enough for long-term data storage (more than 30 years), have an innovative composite layer for high capacities and are all ISOA formatted.
See page 1066 for Sony promotion.



3½" OPTICAL DISKS

	DESCRIPTION	BYTES SECTOR	CAPACITY	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
EDM-128	3½" Optical disk	512	128MB	10-73-29	5.30	5.95	5.77	5.60
EDM-128	3½" Optical disk **(10 pack)**	512	128MB	04-44-37	55.69	62.50	60.63	58.81
EDM-128MF	3½" Optical disk **(for Mac)**	512	128MB	11-20-91	5.30	5.95	5.77	5.60
EDM-128MF	3½" Optical disk **(for Mac) (10 pack)**	512	128MB	04-44-44	44.50	49.95	48.45	47.00
EDM-230	3½" Optical disk	512	230MB	10-88-85	5.12	5.75	5.58	5.41
EDM-230	3½" Optical disk **(10 pack)**	512	230MB	04-44-51	47.18	52.95	51.36	49.82
EDM-230MF	3½" Optical disk **(for Mac)**	512	230MB	11-21-01	5.12	5.75	5.58	5.41
EDM-230MF	3½" Optical disk **(for Mac) (10 pack)**	512	230MB	04-44-68	47.18	52.95	51.36	49.82
EDM-540	3½" Optical disk	512	540MB	84-07-10	10.65	11.95	11.59	11.24
EDM-640	3½" Optical disk	2048	640MB	84-07-27	11.54	12.95	12.56	12.18
EDM-640	3½" Optical disk **(10 pack)**	2048	640MB	04-44-75	112.93	◗	122.95	119.26
EDM-G13C	3½" GigaMo Optical disk		1.3GB	11-30-93	16.88	18.95	18.38	17.83

5¼" OPTICAL DISKS

EDM-600	5¼" Optical disk	512	600MB	10-62-27	20.45	22.95	22.26	21.59
EDM-600	5¼" Optical disk **(10 pack)**	512	600MB	04-44-82	195.59	◗	212.95	206.56
EMD-650	5¼" Optical disk	1024	650MB	10-62-34	20.45	22.95	22.26	21.59
EDM1200	5¼" Optical disk	512	1.2GB	10-77-76	20.45	22.95	22.26	21.59
EDM1300	5¼" Optical disk	1024	1.3GB	10-77-83	20.45	22.95	22.26	21.59
EDM1300	5¼" Optical disk **(10 pack)**	1024	1.3GB	04-44-99	225.90	◗	245.95	238.57
EDM2300	5¼" Optical disk	512	2.3GB	11-20-46	32.03	35.95	34.87	33.83
EDM2300	5¼" Optical disk **(5 pack)**	512	2.3GB	04-45-09	156.10	◗	169.95	164.85
EDM2600	5¼" Optical disk	1024	2.6GB	11-20-39	32.03	35.95	34.87	33.83
EDM2600	5¼" Optical disk **(5 pack)**	1024	2.6GB	04-45-16	156.10	◗	169.95	164.85

OTHER ITEMS

FOR BLANK CD MEDIA SEE PAGES 1046–1049

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

RE-WRITABLE OPTICAL DISKS (MO)

TDK



TDK MO Disks are precision manufactured for uncompromising data integrity and hardware compatibility, far in excess of all ISO requirements. Because they are over 10 million times rewritable and have an archival life over 30 years, TDK MO Disks are perfectly designed for desktop publishing and multimedia and creative applications. For total assurance, all TDK MO Disks are tested and certified before shipment, for 100% error-free performance, guaranteed.

3½" OPTICAL DISKS

REF NO.	DESCRIPTION	BYTES SECTOR	MAX CAP	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
MO-128EA	3½" Optical Disk	—	128MB	10-88-54	5.30	5.95	5.77	5.60
MO-128EA	3½" Optical Disk **(10 pack)**	—	128MB	04-45-23	44.50	49.95	48.45	47.00
MO-128AFEA	3½" Optical Disk **(for Mac)**	—	128MB	10-88-61	5.65	6.35	6.16	5.98
MO-128AFEA	3½" Optical Disk **(for Mac) (10 pack)**	—	128MB	04-45-47	51.63	57.95	56.21	54.53
MO-230EA	3½" Optical Disk	—	230MB	10-88-78	4.41	4.95	4.80	4.66
MO-230EA	3½" Optical Disk **(10 pack)**	—	230MB	04-45-54	40.05	44.95	43.60	42.29
MO-230AF	3½" Optical Disk **(for Mac)**	—	230MB	11-17-93	5.30	5.95	5.77	5.60
MO-230AF	3½" Optical Disk **(for Mac) (10 pack)**	—	230MB	04-45-61	48.96	54.95	53.30	51.70

5¼" OPTICAL DISKS

MO-600EA	5¼" Optical Disk	512	600MB	10-88-92	20.45	22.95	22.26	21.59
MO-650EA	5¼" Optical Disk	1024	650MB	10-89-02	20.45	22.95	22.26	21.59
MO-650EA	5¼" Optical Disk **(10 pack)**	1024	650MB	04-45-78	200.19	◗	217.95	211.41
MO-1.2GEA	5¼" Optical Disk	512	1.2GB	10-89-19	22.23	24.95	24.20	23.47
MO-1.2GEA	5¼" Optical Disk **(10 pack)**	512	1.2GB	04-45-85	215.80	◗	234.95	227.90
MO-1.3GEA	5¼" Optical Disk	1024	1.3GB	10-89-26	20.45	22.95	22.26	21.59
MO-1.3GEA	5¼" Optical Disk **(10 pack)**	1024	1.3GB	04-45-92	215.80	◗	234.95	227.90
MO-2.3GEA	5¼" Optical Disk	512	2.3GB	11-28-02	38.27	42.95	41.66	40.41
MO-2.3GEA	5¼" Optical Disk **(10 pack)**	512	2.3GB	04-46-02	357.46	◗	397.95	395.95
MO-2.6GEA	5¼" Optical Disk	1024	2.6GB	11-28-19	38.27	42.95	41.66	40.41
MO-2.6GEA	5¼" Optical Disk **(10 pack)**	1024	2.6GB	04-46-19	358.17	◗	389.95	378.25
MO-5.2	5¼" Optical Disk	—	5.2GB	11-17-20	50.61	52.95	52.42	51.90

OTHER ITEMS
FOR BLANK CD MEDIA SEE PAGES 1046–1049

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

MAGNETIC MEDIA

DESCRIPTION	CAT NO	Web Price	PRICE PER PACK £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
CD RECORDABLE DISKS (CD-R)					
C4437A 74 minute CD-R Disk (**25 pack**)	11-52-49	19.56	21.95	21.29	20.65
C4437E 74 minute CD-R Disk (**10 pack**) (with scratchguard sleeves)	11-53-49	11.54	12.95	12.56	12.18
CD REWRITABLE DISKS (CD-RW)					
C4438A 74 minute CD-RW Disk (**10 pack**)	11-50-50	35.59	39.95	38.75	37.59
TRAVAN-3 (1.6GB/3.2GB)					
C4427A Travan-3 (**1 pack**)	84-77-99	22.35	23.95	23.45	22.95
C4427D Travan-3 (**5 pack**)	11-44-60	106.15	◗	109.95	108.85
TRAVAN-4 (4GB/8GB)					
C4425A Travan-4 (**1 pack**)	84-78-23	24.01	26.95	26.14	25.36
C4425D Travan-4 (**5 pack**)	11-44-84	95.48	◗	103.95	100.83
TRAVAN-5 (2.5GB/5GB)					
NEW C4429A Travan-5¼" (**1 pack**)	11-31-02	18.64	19.50	19.31	19.11

*Travan is a registered Trademark of the Imation Corporation.

SONY Panasonic

PART NO	DESCRIPTION	BYTES SECTOR	MAX CAP	CAT NO	Web Price	PRICE PER PACK £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
RE-WRITABLE OPTICAL DISKS (MO)								
92279T	5¼" Re-Writable Optical Disk	512	1.2GB	84-78-54	40.05	44.95	43.60	42.29
92280T	5¼" Re-Writable Optical Disk	1024	1.3GB	82-40-28	34.71	38.95	37.78	36.65
922279F	5¼" Re-Writable Optical Disk	512	2.3GB	84-09-30	45.54	49.95	48.95	47.95
92280F	5¼" Re-Writable Optical Disk	1024	2.6GB	11-30-96	45.39	50.95	49.42	47.94
WORM OPTICAL DISKS								
HEWLETT-PACKARD								
92290F	5¼" WORM Optical Disk	1024	2.6GB	84-78-61	291.78	299.95	299.95	296.95
PANASONIC								
L-MO501W	5¼" WORM Optical Disks (for 5010E/5012)	1024	940MB	10-64-61	84.60	94.95	92.10	89.34
L-MW400A	5¼" WORM Optical Disk (for LF7300B)	1024	1.4GB	10-84-14	62.32	69.95	67.85	65.82
SONY								
CWO-2300	5¼" WORM Optical Disk	512	2.3GB	11-20-53	32.03	35.95	34.87	33.83
CWO-2600	5¼" WORM Optical Disk	1024	2.6GB	11-20-60	32.03	35.95	34.87	33.83

OTHER ITEMS

FOR DATA CARTRIDGE STORAGE SEE PAGE 530
FOR FIRE SAFES SEE PAGES 515–517

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

MAGNETIC MEDIA



DESCRIPTION	CAT NO	Web Price	PRICE PER PACK £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
4mm DATA CARTRIDGES					
C5705A 4mm 60m (DDS–1.3GB) (**10 pack**)	06-56-43	42.72	47.95	46.51	45.12
C5706A 4mm 90m (DDS-1-2–2/4GB) (**10 pack**)	06-56-12	25.35	28.45	27.60	26.77
C5707A 4mm 120m (DDS-2–4/8GB) (**10 pack**)	06-56-29	59.00	67.95	65.91	63.93
C5708A 4mm 125m (DDS-3–12/24GB) (**10 pack**) + 1 FREE Cleaning Cartridge	06-31-01	139.50	➧	154.95	150.30
C5718A 4mm 150m (DDS-4-20/40GB) (**10 pack**)	04-95-00	255.80	➧	264.95	262.30
C5718A 4mm 150m (DDS-4-20/40GB)	11-30-95	25.95	27.95	27.67	27.39
C5709A 4mm Cleaning Tape (**2 pack**)	10-92-31	11.80	13.75	13.20	12.67
DLT DATA CARTRIDGES – DLT Tape 15/30GB (for HP DLT 30e)					
C5141A DLT Tape 15/30GB (**1 pack**)	84-38-10	25.35	28.45	27.60	26.77
C5141A DLT Tape 15/30GB (**10 pack**)	04-41-69	236.01	➧	256.95	249.24
DLT TAPE 20–40/35–70/40–80GB DLT TAPE IV (For HP DLT 40e/70e)					
C5141F DLT Tape IV 20–40/35–70/40–80GB (**1 pack**)	84-73-66	53.75	56.95	55.95	55.25
C5141F DLT Tape IV 20–40/35–70/40–80GB (**10 pack**)	04-42-24	505.13	➧	549.95	533.45
DLT TAPE CLEANING CARTRIDGE (20 Cycles)					
C5142A DLT Cleaning Cartridge	84-38-27	38.18	39.95	39.55	39.15
MAGNETO OPTICAL DISKS (MO)					
92279T 5¼" Rewritable MO Disk (1.2GB) (**1 pack**)	84-78-54	40.05	44.95	43.60	42.29
92280T 5¼" Rewriteable MO Disk (1.3GB) (**1 pack**)	82-40-28	34.71	38.95	37.78	36.65
92279F 5¼" Rewriteable MO Disk (2.3GB) (**1 pack**)	84-09-30	45.54	49.95	48.95	47.95

OTHER ITEMS
FOR DATA CARTRIDGE STORAGE SEE PAGE 530
FOR FIRE SAFES SEE PAGES 515–517

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Lower prices on-line at action.com

Action is an authorised distributor of Imation (3M) Data Storage Products

3½" & 5¼" DISKETTES

IMATION 3M

FOR LS-120 DISKETTES SEE PAGE 1108





3½" FORMATTED DISKETTES

TYPE	DESCRIPTION	QTY PER BOX	CAT NO	Web Price	PRICE PER BOX £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DS HD	3½" Formatted NEON Diskettes **(for DOS)**	10	11-49-58	2.82	2.95	2.92	2.89
DS DD	3½" Formatted Diskettes **(for DOS)**	10	10-50-77	4.73	4.95	4.90	4.85
DS HD	3½" Formatted Diskettes **(for DOS)**	10	10-50-84	2.63	2.95	2.86	2.78
DS HD	3½" Formatted Diskettes **(for DOS)**	50	84-48-33	11.98	13.45	13.05	12.66
DS HD	3½" Formatted Diskettes **(for DOS)**	100	11-29-36	22.94	25.75	24.98	24.23
DS HD	3½" Formatted Diskettes **(for DOS)**	200	04-95-42	47.74	49.95	49.45	48.96
DS HD	3½" Formatted Diskettes **(for Mac)**	10	10-61-55	2.40	2.99	2.79	2.60
DS HD	3½" Formatted Diskettes **(Rainbow Colours)**	10	10-72-02	2.78	3.65	3.55	3.45

3½" DISKETTES

TYPE	DESCRIPTION	QTY PER BOX	CAT NO	Web Price	PRICE PER BOX OF 10 £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DS DD	3½" Diskettes	10	10-28-50	4.32	4.85	4.70	4.56
DS HD	3½" Diskettes	10	10-43-08	3.07	3.45	3.35	3.25
—	3½" Diskette Cleaning Kit	—	11-28-95	6.31	6.99	6.89	6.79

5¼" DISKETTES

TYPE	DESCRIPTION	QTY PER BOX	CAT NO	Web Price	PRICE PER BOX OF 10 £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DS DD	5¼" Formatted Diskettes **(for DOS)**	10	10-50-53	4.16	4.35	4.31	4.26
DS HD	5¼" Formatted Diskettes **(for DOS)**	10	10-50-60	6.17	6.45	6.39	6.32
DS DD	5¼" Diskettes 48TPI	10	10-07-66	3.78	3.95	3.91	3.87
DS HD	5¼" Diskettes	10	10-28-67	4.92	5.60	5.30	5.00

OTHER ITEMS

FOR TAPE BACK-UP DRIVES SEE PAGES 21[illegible]–278

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Speed
Reliability
Performance

imation

SPECIAL OFFER

IMATION
100 PACK 74MIN
650MB CD-R (65P EACH)
+AVERY STARTER KIT

ONLY
£65.00
ONLINE
04-17-30



SPECIAL DEAL

IMATION
TRAVAN NS 8GB
DATA CARTRIDGE
5 PACK

ONLY
£74.65
ONLINE
04-17-67



FANTASTIC VALUE

IMATION
20-40/35-70/
40-80GB DLT IV
CARTRIDGE 10 PACK

ONLY
£486.76
ONLINE
06-51-55



IMATION

Lower prices on-line at action.com

DATA CARTRIDGES

IMATION 3M

STANDARD DATA CARTRIDGES

IMATION 3M

DESCRIPTION	CAPACITY	LENGTH (ft)	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DC300XLP	45MB	450	80-04-82	10.94	11.45	11.34	11.22
DC600A	60MB	600	80-00-73	12.38	12.95	12.82	12.69
DC6150	150MB	620	80-10-96	6.12	6.40	6.34	6.27
DC6250	250MB	1020	80-17-04	8.36	8.75	8.66	8.58
DC6320	320MB	620	80-16-94	14.29	14.95	14.80	14.65
DC6525	525MB	1020	80-23-18	9.51	9.95	9.85	9.75
Magnus 1.0	1.0GB	760	80-28-75	21.27	22.25	22.03	21.81
Magnus 1.2	1.2GB	950	80-29-54	13.32	14.95	14.50	14.07
Magnus 2.0	2.0GB	950	80-29-16	21.94	22.95	22.72	22.49
Magnus 2.5	2.5GB	1200	80-33-31	16.20	16.95	16.78	16.61
SLR8 (previously SLR5)	4/8GB	1500	11-32-03	21.94	22.95	22.72	22.49
SLR24 (previously SLR6)	12/14GB	1500	11-49-65	31.30	32.75	32.42	32.10
MLR 13GB	13GB	1200	86-19-95	36.48	40.95	39.72	38.53
SLR32 (previously MLR16)	16/32GB	1200	11-29-81	45.78	47.90	47.42	46.95
SLR50 (previously MLR25)	25/50GB	–	11-46-35	46.60	48.75	48.26	47.78

DRIVE HEAD CLEANING KITS

IMATION 3M

DESCRIPTION	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Travan/DC2000 Mini DC Drive Head Cleaning Kit	80-33-24	13.81	14.45	14.31	14.16
Travan/DC2000 Mini DC Drive Head Cleaning Kit Refill	11-34-30	12.19	12.75	12.62	12.50
DC6000 Standard DC Drive Head Cleaning Kit	80-33-17	13.33	13.95	13.81	13.67

UNFORMATTED MINI DATA CARTRIDGES

DESCRIPTION	CAPACITY	LENGTH (ft)	CAT NO	Web Price	PRICE EACH £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DC2000	40MB	205	80-08-84	8.55	8.95	8.86	8.77
DC2120	120MB	307.5	80-17-11	5.22	5.85	5.67	5.50
DC2120 (**10 pack**)	120MB	307.5	04-90-85	52.43	55.75	55.19	54.64
MC3000XL	340/1GB	400	80-35-20	17.77	18.45	18.27	18.08
MC3000XL (**10 pack**)	340/1GB	400	04-90-92	158.51	▶	162.95	161.32

OTHER ITEMS

FOR CD-ROM DRIVES SEE PAGE 243
FOR CD WRITERS SEE PAGES 249–258

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

3½" DISKETTES

SONY

Sony formatted **3½" diskettes** have a reputation for quality and reliability. Accurate performance is maintained by Sony's DDL (durability, dispersion and lubrication) binder system. This process distributes particles evenly, ensuring that the same quality performance is maintained – even after 20 million passes.

SEE PAGE 1066 FOR SONY PROMOTION



3½" FORMATTED DISKETTES

TYPE	DESCRIPTION	QTY PER BOX	CAT NO	Web Price	PRICE PER BOX £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+	
DS-HD	3½" Formatted Diskettes **(for DOS)**	10	10-49-82	2.09	2.35	2.28	2.21	
DS-HD	3½" Formatted Diskettes **(for Mac)**	10	84-04-59	2.09	2.35	2.28	2.21	
DS-HD*	3½" Formatted Diskettes in Storage Box	20	22-39-28	4.25	4.45	4.41	4.36	
DS-HD	3½" Formatted Diskettes **(for DOS)**	30	84-47-61	6.02	6.30	6.24	6.17	
—	3½" Formatted Diskettes **(for DOS)**	50	04-31-34	9.31	10.45	10.14	9.83	
—	3½" Formatted Diskettes **(for DOS)** + 5 Storage Box	100	04-31-26	18.11	18.95	18.76	18.57	NEW
DS-HD	3½" Formatted Diskettes **(for DOS)**	200	04-92-43	34.12	35.70	35.34	34.99	

BATTERIES

ALKALINE BATTERIES

Battery for multi-use D/LR20	2	11-46-42	2.10	2.20	2.17	2.15
Battery for multi-use C/LR14	2	11-46-59	2.10	2.20	2.17	2.15
Battery for multi-use AA/LR06	12	11-46-66	4.41	4.95	4.80	4.66
Battery for multi-use AA/LR06	8	11-46-73	3.55	3.99	3.89	3.79
Battery for multi-use AA/LR06	4	11-46-80	2.35	2.95	2.85	2.75
Battery for multi-use AAA/LR03	4	11-46-97	1.89	2.20	2.11	2.03
Battery for multi-use N	1	11-47-07	1.89	2.20	2.11	2.03
Battery for multi-use 9V/6LR61	1	11-47-14	1.89	2.20	2.11	2.03

LITHIUM BATTERIES

3V, 85mAH for calculator, watch and camera	1	11-47-21	1.50	1.75	1.68	1.61
3V, 160mAH for calculator, watch and camera	1	11-47-38	1.50	1.75	1.68	1.61
3V, 220mAH for calculator, watch and camera	1	11-47-45	1.50	1.75	1.68	1.61

***Packed in a sturdy storage case.**

OTHER ITEMS
FOR DISKETTE MAILER SEE PAGE 532
FOR DISKETTE STORAGE SEE PAGE 532

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

more!

SONY



Now is your chance to get **more!** when you buy Sony Data Media Products...







Sony offer more choice of Data Media with the most comprehensive product range in the market. Not only do Sony provide more capacity and more value, but from 1st July to 31st August 2000, when you choose from the range of Sony Data Media products, we will be offering you FREE gifts!



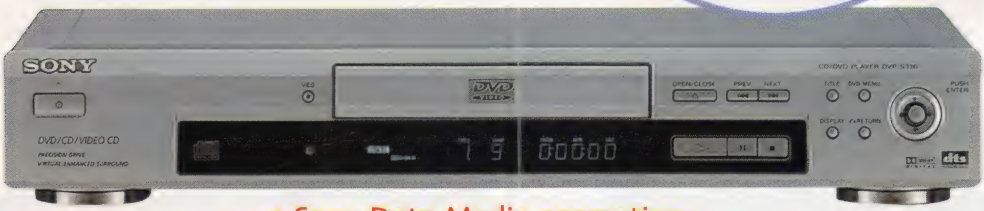
Spend £200
and you can claim from a selection of CDs/MDs

Spend £750
you can claim a Sony Clock Radio

Spend £1,500
you can claim a stylish, round CD Walkman

Spend £2,500
you can claim a Micro HiFi

Spend £5,000
you can claim a fantastic Home DVD Player



a Sony Data Media promotion

from 1st July 2000 to 31st August 2000 Claim by: 1st October 2000

For more information contact your distributorFull Terms and Conditions will be on claim forms

DATA CARTRIDGES

SONY

Sony is a leading manufacturer of ¼" **Data Cartridges** and is a technologically innovative member of the industries QIC Committee. Sony's extensive range of **data cartridges** offer capacities between 60MB to 4GB. Competitive pricing means that Sony cartridges offer a low cost per megabyte, as well as being highly reliable.

SEE PAGE 1066 FOR SONY PROMOTION



FORMATTED MINI DATA CARTRIDGES

DESCRIPTION	CAPACITY	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
QTR3700 Ditto Compatible Cartridge	3.7GB	11-17-71	10.65	11.95	11.59	11.24

TRAVAN* TECHNOLOGY FORMATTED MINI CARTRIDGES

*Imation registered Trademark.

DESCRIPTION	FORMAT	CAPACITY	LENGTH (ft)	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
QTR-1	QIC-80	400MB	750	81-64-45	10.02	10.70	10.40	10.20
QTR-1 (**5 pack**)	QIC-80	400MB	750	04-93-15	48.92	51.15	50.50	49.90
QTR-3	QIC-3020	1.6GB	750	84-00-19	13.63	14.40	14.15	13.90
QTR-3 (**5 pack**)	QIC-3020	1.6GB	750	04-93-22	67.92	70.00	69.80	68.90
QTR-4	QIC-3095	4GB	750	84-00-26	15.99	17.95	17.41	16.89
QTR-4 (**5 pack**)	QIC-3095	4GB	750	04-93-39	70.79	79.45	77.07	74.75

FORMATTED QIC DATA CARTRIDGES

DESCRIPTION	CAPACITY	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
QW5122F Travan 1	420MB	80-35-37	6.70	7.50	7.28	7.06
QW3020XLF Travan 3	1.7GB	84-00-33	13.72	14.35	14.21	14.07
QW3095XLF Travan 4	4.0GB	84-07-58	16.83	18.90	18.33	17.78
QW3000XL	2.0GB	84-04-80	11.54	12.95	12.56	12.18
QW3080XLF	4.0GB	80-38-29	13.68	15.35	14.89	14.44

STANDARD DATA CARTRIDGES

DESCRIPTION	CAPACITY	LENGTH (ft)	CAT NO	Web Price	PRICE EACH £(EX.VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
QD6150	150MB	620	80-15-46	5.79	6.50	6.31	6.12
QD6525	525MB	1000	80-23-63	9.34	10.50	10.19	9.88
QD9120	1.2GB	950	80-31-73	13.32	14.95	14.50	14.07
QD9250	2.5GB	1200	80-31-80	16.20	16.95	16.78	16.61
SLR-5	4.0GB	1500	11-34-09	22.23	24.95	24.20	23.47

OTHER ITEMS

FOR TAPE BACK-UP DRIVES SEE PAGES 215–232, 250–278

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

3½" DISKETTES

TDK

TDK has a worldwide reputation as producers of audio and video cassettes. The same technology that has developed these products has now been applied to the design and manufacture of TDK **diskettes** – with outstanding results.

Quality without compromise. All TDK's disks have been researched and developed completely from first principles, incorporating some unique specifications.

FEATURES:

- The first disks to feature the Electron Beam (EB) Cured Binding System for improved durability and total reliability even under the most demanding conditions.
- Ultra-fine Super Avilyn Particles for high information density (a similar particle is used to produce TDK's award winning SA Audio cassette).
- All 3½" diskettes are tested to withstand more than 40 million passes per track.
- All disks are Tested and Certified 100% error free.



TDK

3½" FORMATTED DISKETTES

TYPE	DESCRIPTION	QTY PER BOX	CAT NO	Web Price	PRICE PER BOX £ (EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
—	3½" Formatted Diskettes (**for DOS**) – Buy 10 GET 10 FREE	10	04-94-90	2.74	2.85	2.82	2.79
DS HD	3½" Formatted Diskettes (**for DOS**)	20	10-75-70	3.44	3.60	3.56	3.53
DS HD	3½" Formatted Diskettes (**for DOS**)	50	10-87-75	8.08	8.45	8.37	8.28
DS HD	3½" Formatted Diskettes (**for DOS**)	100	10-99-94	13.35	13.65	13.57	13.49
DS HD	3½" Formatted Diskettes (**for DOS**)	200	04-92-36	36.48	40.95	39.72	38.53
DS HD	3½" Formatted Diskettes (**for Mac**)	10	10-74-46	2.53	2.65	2.62	2.59

OTHER ITEMS
FOR CD-ROM DRIVES SEE PAGE 243
FOR CD WRITERS SEE PAGES 249–258

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

SPECIAL OFFER

TDK.

FREE



FREE £5.00 Marks & Spencer Vouchers when you purchase the following TDK media.



- Optical Media ×10
- ¼" Data Cartridges ×10
- 4mm Data Tapes ×20
- 8mm Data Tapes ×20
- 3½" DS HD Diskettes ×15 Boxes. (Formatted or Unformatted)

This offer is made subject to availability

OTHER ITEMS

FOR SECURITY PRODUCTS SEE PAGES 510–514

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

SPECIAL OFFER



BAG HOLDS 96 CDRS. OFFER AVAILABLE WHILE STOCKS LAST

TDK Reflex 74Min (100 Pack) 650MB CDR and CDR CARRYING BAG FREE

ONLY

£65.43 +VAT

ONLINE Cat No 04-17-89

SPECIAL OFFER



CD STORAGE HOLDS 12 CDRS. OFFER AVAILABLE WHILE STOCKS LAST

TDK Reflex 80Min 700MB CDR (10 pack) + FREE CD Storage

ONLY

£48.80 +VAT

ONLINE Cat No 04-22-85

TDK



TDK DDS-3 4MM 125M Data Cartridge

BUY 10 AND GET A CLEANING CARTRIDGE FREE

ONLY

£155.18 +VAT

ONLINE Cat No 04-68-20

SPECIAL OFFER



TDK DDS-2 4MM 120M Data Cartridge

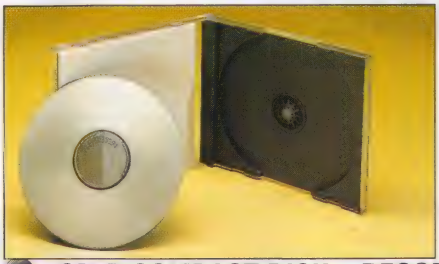
BUY 10 AND GET A CLEANING CARTRIDGE FREE

ONLY

£59.65 +VAT

ONLINE Cat No 04-14-23

BULK 3½" DISKETTES/BULK CD-R





CD-R COMPACT DISK – RECORDABLE

DESCRIPTION	CAT NO	Web Price	PRICE PER BOX £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
Bulk 74 minute CD-R (**20 pack**) Jewel cased	11-48-62	22.23	24.95	24.20	23.48
Bulk 74 minute CDR (**50 pack**) Jewel cased	11-38-95	47.36	49.55	49.05	48.56
Bulk 74 minute CDR (**50 pack**) (no Jewel cases)	11-27-72	44.88	46.95	46.48	46.02
Bulk 74 minute CD-R (**100 pack**) (no Jewel cases)	11-48-79	88.84	92.95	92.02	91.10
PVC CD Wallet Clear (50 pack)	53-00-81	5.73	5.99	5.93	5.87
Paper CD Wallet (50 pack)	53-78-09	5.73	5.99	5.93	5.87

3½" FORMATTED DISKETTES (10/50/100/200)

TYPE	DESCRIPTION	QTY PER BOX	CAT NO	Web Price	PRICE PER BOX £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DS HD	3½" Formatted Diskettes (**for DOS**)	10	11-32-58	1.82	1.90	1.88	1.86
DS HD	3½" Formatted Colour Diskettes (**for DOS**)	10	11-32-65	2.63	2.75	2.72	2.70
DS DD	3½" Formatted Diskettes (**for DOS**)	50	10-63-37	8.86	9.95	9.65	9.36
DS HD	3½" Formatted Diskettes (**for DOS**)	50	10-63-68	9.51	9.95	9.85	9.75
DS HD	3½" Formatted Diskettes (**for DOS**)	100	05-69-68	18.11	18.95	18.76	18.57
DS HD	3½" Formatted Diskettes (**for DOS**)	200	05-69-75	35.32	36.95	36.58	36.21

3½" FORMATTED DISKETTES WITH STORAGE BOX (50/100)

DS HD	3½" Formatted Diskettes (**for DOS**) packed in 50pc Storage Box	50	11-17-55	12.86	13.45	13.32	13.18
DS HD	3½" Formatted Diskettes (**for DOS**) packed in 100pc Storage Box	100	11-17-62	24.99	25.95	25.69	25.43

3½" DISKETTES (50)

TYPE	DESCRIPTION		CAT NO	Web Price	PRICE PER BOX OF **50** £(EX. VAT) TOTAL ORDER VALUE £1–99	£100+	£1000+
DS HD	3½" Diskettes	50	10-54-24	11.36	12.75	12.37	12.00

OTHER ITEMS
FOR CD-ROM DRIVES SEE PAGE 243
FOR CD WRITERS SEE PAGES 249–258

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Clearance Bargain Codes

For latest information on the following Clearance Bargain products, call free on 0800 333 333 and quote the listed reference number, eg. the code for the hard disk drives would be ZCG. If you are looking for a specific product and it's not listed in the Clearance Bargains section, quote the catalogue code from the main catalogue in the usual way and ask the sales assistant to check if it's available in Clearance Bargains.

PRINTERS/ACCESSORIES

Other Printers	ZBJ
DMP Accessories	ZBK
Ink/Laser Accessories	ZBL
Fonts	ZBM
Other Printer Accessories	ZBL
IBM Printers	ZIB

PERIPHERALS

Hard Disk Drives	ZCG
Graphics Cards	ZCH
Mice/Pointing Devices	ZCI
LCD Panels/Projectors	ZCI
IBM Accessories	ZIA

DATACOMMS

Switches/Buffers	ZDA
Modems	ZDB
Internet Products	ZDC
Cables & Adaptors	ZDE
Connectors	ZDF
Terminal Emulation	ZDG
Other Datacomms	ZDH

SOFTWARE

Spreadsheets	ZFA
Integrated	ZFB
Graphics	ZFC
Databases	ZFD
Project Management	ZFE
Word Processing	ZFF
Desktop Publishing	ZFG
Office/Email	ZFH
Finance	ZFI
Anti-Virus	ZFK
Operating Systems	ZFL
Languages	ZFM
Utilities	ZFN
Communications	ZFO
Combination	ZFP
CD-ROM	ZFR
CAD	ZFT
Other	ZFU
IBM	ZIC

SOFTWARE LICENSING

Microsoft MOLP	ZFJ
Microsoft Select	SFV
Lotus Passport	ZFW
Novell VLA	ZFX
Other	ZFY

MAC PRODUCTS

Printers	ZBH
Software	ZFQ
Processors	ZGA
Laser Printers	ZGB
Peripherals	ZGC
Datacomms	ZGD
Networks	ZGE
Software	ZFQ
Inkjet Printers	ZGI

PRINTER CONSUMABLES

Original Ribbons	ZHA
Compatible Ribbons	ZHB
Laser Supplies	ZHC
Plotter Supplies	ZHD
Inkjet Supplies	ZHE
Thermal Supplies	ZHF
Bulk Comp Ribbons	ZHG
Others Supplies	ZHI
Print Wheels	ZHJ

MAGNETIC MEDIA

5¼" Diskettes	ZID
3½" Diskettes	ZIE
Other Diskettes	ZIF
½" Magnetic Tape	ZIG
¼" Data Cartridges	ZIH
8mm Tape	ZII
4mm Tape	ZIJ
Recordable CD	ZIK
Optical Disk	ZIL
Other Media	ZIN
Starter Kits	ZJA

STATIONERY

Cut Labels	ZJB
Continuous Paper	ZJD
Film	ZJE
Labels	ZJF
Cut Sheet Paper	ZJG
Specialist Paper	ZJH
Binders	ZJI

FURNITURE

Work Stations	ZKA
Printer Stands	ZKB
Other Furniture	ZKC
Silencers	ZKD
Terminal Arms	ZKE
Bulk Storage	ZKF
Desks	ZKG

CLEANING, STORAGE AND PROTECTION

Media Fire Safes	ZLA
Electrical Protection	ZLB
Shredders & Accessories	ZLC
Cleaning	ZLE
Media Storage	ZLF
Computer Protection	ZLG
Screen Filters	ZLH
Copier Supplies	ZMG
Office equipment	ZMH
XPD Office Supplies	ZMI

Receive a full Clearance Bargain update by e-mail each week...

Send us the details below by e-mail to us at

bargains@action.com

- ✓ Your name & position
- ✓ Your customer number (as printed on back of catalogue)
- ✓ Your company name
- ✓ Your e-mail address
- ✓ Your telephone number

CLEARANCE BARGAINS

Action

NOTEBOOK PCs — ZAA

DESCRIPTION	CAT NO	CONDITION	QUAN.	CLEARANCE PRICE £ (EX. VAT)
SIEMENS SCENIC MOBILE 510 6266/64MB/4GB/G2 CLEARAN	02-31-10	2	1	899.00
MITSUBISHI LS100 200MMX 32MB/2.1GB NETWORK PC	13-08-22	1	3	450.00
FUJITSU LIFEBOOK L460 (G2) WNT PII333/32MB/	19-09-00	2	1	1320.00
10Gb Hard Disk Drive for ThinkPad (36L9293) Grad 2	19-19-51	2	1	508.00
COMPAQ ARMADA 3500 6366T 64MB/6.4GB/13.3TFT/W95	19-19-69	2	1	1299.00
HP 15inch ERGO SVGA MPR II monitor	19-21-29	2	1	85.00
IBM THINKPAD 390(D00) PII300-PE/64MB/4.3GB/CD/14.1	19-23-59	2	1	1059.00
IBM THINKPAD 560Z (910) PII233,4GB,32MB,EXPANDABLE	19-28-24	3	1	795.00
Siemens Scenic Mobile 510 PII 300	19-40-62	2	1	450.00
ACER/TI (10/100 Ethernet) Dockmate V Doc	19-51-99	2	1	223.20
SIEMENS SCENIC MOBILE 800 8.0GB (G2)	19-62-65	2	1	979.00
COMPAQ ARMADA 7400 6333 64MB,6.4GB,13.3TFT,W95	19-71-28	2	1	1169.00
Siemens 15 inch colour monitor	19-75-87	3	1	120.00
COMPAQ CONTURA AERO 4/25 M250 NOTEBOOK PC	19-78-23	2	1	520.00
SAMSUNG VM6300cX WNT CEL300MHZ 64MB (G2 CLEARANCE	19-96-00	2	1	985.00

DESKTOP/TOWER PCs — ZAB

DESCRIPTION	CAT NO	CONDITION	QUAN.	CLEARANCE PRICE £ (EX. VAT)
COMPAQ WORKSTATION AP400/PII400/128MB/4.3GB/ G2	02-12-70	2	1	999.00
IBM PC300GL (WIN98)200MMX INTEL PENTIUM 16MB	02-25-45	3	1	265.00
FUJITSU MYRICA P200X MULTIMEDIA PC	02-26-00	3	1	300.00
IBM PC300GL (WIN95)200MHZ 16MB	02-29-78	2	1	299.00
HP VECTRA VEi8 PIII550 13.5GB/128MB/DVD	02-31-12	2	1	750.00
HP KAYAK XA PIII500/128MB/10GB	02-31-13	2	1	864.00
COMPAQ DESKPRO 2000 6/180M1620/CD DROP PC	02-93-11	3	1	200.00
COMPAQ DESKPRO 2000 P200MMX 2.1GB D/TOP PC	02-93-59	3	1	360.00
HP Vectra PII350/32mb/3.2gb/W95 G2 clearance	17-12-58	2	1	399.00
Mitsubishi cx400 PII350 64/6.4Gb	19-09-01	3	1	513.00
Siemens Scenic D6C Cel266 32mb 2.1gb	19-13-17	2	1	359.00
TOSHIBA EQUIUM 3200M/PIII450/64MB/6.0GB	19-15-37	2	1	489.00
HP Vectra VL Series 8 PII350/32MB grade 2	19-17-62	2	1	410.00
IBM PC300PL,PIII450,64MB,13.5GB,40XCD,W98	19-19-70	2	1	669.00
MITSUBISHI LS500 6266 32MB/3.2GB DESKTOP	19-23-13	3	1	250.00
HP Vectra VEi7 Cel400MHZ 8.4GB/64MB/CD/W95 Sound	19-23-54	2	1	420.00
Apricot LS500 Cel266 3.2Gb 32Mb(G3 CLEARANCE	19-28-20	3	1	399.00
TOSHIBA EQUIUM 300M CEL333/32MB/4.3gb	19-31-79	2	1	300.00
Mitsubishi Apricot LS500 6266/32/ 3.2 Desktop	19-34-28	2	1	299.00
COMPAQ PROF WORKSTATION SP700 PII450 256mb 9gbhd	19-35-61	3	1	1500.00
NEC Powermate P166 16MB 1.6GB Desktop PC	19-39-85	2	1	250.00
SIEMENS SCENIC PRO D7 PII350/128MB	19-46-38	2	1	429.00
IBM PC300GL (G3) 6/350/32MB/3.2GB/W95	19-50-03	3	1	370.00
FUJITSU MYRICA MT6 6300	19-50-32	2	1	350.00
COMPAQ PROSIGNIA 320 CEL466/64MB/9.1ATA + 17"MONIT	19-52-09	2	1	565.00
Mitsubishi XV400 (G3) Cel400/32/6.4/w95 clearance	19-53-87	3	1	299.00
COMPAQ DESKPRO EP PII266/32MB/3.2GB CLEARANCE	19-54-58	2	1	499.00
SIEMENS SCENIC 320 CEL366/32MB/4.3GB/W98	19-55-07	2	1	263.00
MITSUBISHI LS500 PII266/32MB/3.2GB CLEARANCE	19-59-08	2	1	295.00
TOSHIBA EQUIUM 7000S PII233/32MB/2.1GB CLEARANCE	19-61-89	2	1	300.00
HP VECTRA VEi8 PII400/32MB/4.3GB/WIN 95 D/TOP PC	19-62-69	3	1	355.00
Fujitsu T-Bird C300 64/4.3 GB plus 17 inch monitor	19-65-10	2	1	450.00
Apricot LS500 (G2) CEL266/3.2GB/32MB/32+CD/Win 95	19-67-62	2	1	415.00
MITSUBISHI S500 6350CD/32MB/6.4GB	19-70-87	2	1	350.00
Mitsubishi LS500 PII266/32MB - Clearance	19-73-25	2	1	300.00
COMPAQ PROF WORKSTATION 6000 6/300/64MB/4GB/16XCD	19-82-54	2	1	1599.00
COMPAQ DESKPRO 6000 PII233/21/2.1GB CLEARANCE PC	19-83-38	3	1	299.00
Mitsubishi LS500 266 32/3.2GB Powe - Clearance	19-88-72	2	1	299.00
Compaq Professional Workstation AP400 M400S	19-95-34	2	1	1275.00
SNI Scenic Pro D5 5200/16/2.1	45-98-03	1	1	250.00
HP VECTRA PII350/32MB/3.2GB/W95 INC D6657A (BK)	52-97-82	—	1	450.00
COMPAQ PROLIANT 6000 6400 MODEL 2 SERVER 256MB RAM	62-04-42	—	1	6199.00
COMPAQ DESKPRO EP PII350/64MB/4.3GB WIN 95 PC	62-24-95	—	2	400.00

www.action.com
THE BEST PLACE TO BUY IT PRODUCTS ONLINE
Save £££'s!
Check live stock
Track order status

Clearance Bargains

Save £££'s on our end-of-line and refurbished stock – all fully operational and tested by engineers.

Action has over 800 Clearance Bargains at any one time, including products from all sections of the catalogue. All our Clearance Bargains are fully tested by engineers and are Graded as follows:

CONDITION 1

Products discontinued from the catalogue and in new and unused condition. They come with a 12 month guarantee (excluding software).

CONDITION 2

Products that have been repacked and are complete. They may have been used previously and the packaging is unlikely to be original. They come with a three month guarantee (excluding software).

CONDITION 3

Products that have been repacked but may be missing some accessories. Packaging is unlikely to be original. They come with a seven day guarantee (excluding software).

We take much care pricing the items in this section with prices reflecting current market prices. Clearance items are not subject to Action's Pink Pricing but may contribute to the Pink Pricing of other items ordered concurrently from the main catalogue. Condition 1 carry a 12 month guarantee, Condition 2 carry a 3 month guarantee and Condition 3 carry a 7 day guarantee against defects in material and workmanship.* For returns information and policy please refer to pages 6 and 12. *Except software, which cannot be returned.

Clearance Bargains – Minimum Contents List

The following table lists the additional parts that will accompany the Clearance Bargain item you order.

	Base Unit Keyboard Mouse	Power Cable	Battery	Manual	CD ROM	Speakers & Sound Card	AC Adapter	Paper-feed Mech	Software	Consum-ables	Phone Lead	Fax Roll	Monitor Base	Connector cable	Interface Card
Desktop PC	●	●		●					●						
Desktop PC M/M	●	●		●	●	●			●						
Notebook	●	●	●	●			●		●						
Notebook M/M	●	●	●	●	●		●		●						
Printer		●		●				●	●	●					
Plain Paper Fax M/C		●		●				●	●	●	●				
Thermal Fax M/C		●		●			●	●	●	●	●	●			
Photocopier		●		●			●	●		●					
Monitor		●		●									●	●	
Internal Modem				●											
External Modem		●		●			●							●	●
PCMCIA Modem				●					●						●
Int. Network Card				●					●						●
PCMCIA Cards				●					●					●	●

USING THIS CATALOGUE inside front

HOW TO ORDER pages 6 & 7

ORDERING ON LINE pages 14 & 15

Please e-mail me a full Clearance Bargain update every week!

Just e-mail us at **bargains@action.com** with the following information...

- ✓ Your name & position
- ✓ Your customer number (as printed on back of catalogue)
- ✓ Your company name
- ✓ Your e-mail address
- ✓ Your telephone number

Please see Terms & Conditions, Section 14 for full details regarding Clearance Bargains.

Definitions

'Force Majeure' means any cause affecting the performance by Action of its obligations arising from acts, events, omissions, happenings or non-happenings beyond its reasonable control including (but not limited to) governmental regulations, fire, flood or any disaster or industrial dispute affecting a third party.

'Working days' means Monday to Friday, excluding Bank or other Public holidays.

'Year 2000 compliant' means that neither the performance nor the functionality of the goods or services is affected by dates before, during or after the year 2000 and in particular that:

(i) no value for current dates will cause any interruption in operation;
(ii) date based functionally will behave consistently for dates before, during and after the year 2000;
(iii) in all interfaces and data storage, the century in any date will be specified either explicitly or by unambiguous alogrithms or inferencing rules;
(iv) the year 2000 will be recognised as a leap year.

1. Orders

All contracts of sale made by DSI Data Systems International Limited ("Action") shall be deemed to incorporate these terms and conditions, which shall prevail over any other terms from the party ('the Customer') with whom Action is dealing. Cancellation of orders is not accepted as many orders are despatched on the same day the order is placed.

2. Prices

Goods and services, together with VAT, are invoiced at the price prevailing at time of order. Action reserves the right to modify the prices from time to time.

3. Delivery

3.1 Any time or date stated for delivery is an estimate only. Action makes every effort to despatch goods on time but does not accept liability for failure to deliver within the stated time.

3.2 Action does not accept liability for shortages or damage to deliveries unless the Customer notifies us in writing within three working days of receipt.

3.3 The Customer has to accept the goods when they are ready for delivery; delivery is deemed to take place when the goods are delivered to the Customer's nominated address, whereupon the risks of loss, breakage and all damage shall pass to the Customer.

3.4 Title in the goods does not pass to the Customer until payment is received in full by Action.

3.5 If the Customer cannot accept delivery, Action may at its option (a) store and insure the goods at the Customer's expense and risk or (b) sell the goods at the best price reasonably obtainable and (after deducting reasonable storage insurance and selling costs) pay to the Customer any excess over the sale price or charge the Customer for any shortfall.

4. Payment

4.1 Payment is due 30 days from the date of the invoice.

4.2 If payment is not made on time, Action may charge interest daily on the outstanding balance at 3% above Barclays Bank PLC base lending rate from time to time.

5. Product Specifications

5.1 Action makes every effort to supply the goods as advertised but reserves the right to vary actual dimensions, specifications and quantities without prior notice.

5.2 In the event that Action cannot supply the goods ordered by the Customer, Action reserves the right to supply goods of equal or superior quality at no extra cost.

6. Trade names and Trade Marks

Trade names and marks (other than Action's) are not restricted to indications of manufacturers but may also be indicative of general use systems and machines associated with such products.

7. Returns

7.1 Returns are only accepted with Action's prior written agreement, and goods must be unopened, unused, undamaged and fully marketable.

7.2 The 30 days returns policy does not apply in all cases. Some manufacturers require goods to be returned within 14 days in order to secure refund. In such instances **the manufacturers' time limit will apply**, and therefore Action will only accept a return within 14 days of purchase. This is clearly indicated on the catalogue page for the particular product.

8. Action's Warranties

8.1 All goods supplied by Action are warranted to be free from defects in workmanship and materials. No goods are tested or sold as being fit for any purpose or use under specific conditions unless expressly agreed in writing.

8.2 Any complaints about this warranty must be in writing and received by Action within thirty days from delivery. The Customer shall allow Action to investigate the compalint and inspect the goods; if the Customer's complaint is proven, Action will then repair or replace the goods or refund the purchase price at its sole option.

8.3 Action offers a 'no charge' collection, repair and delivery service (on the UK mainland only) for hardware which is shown to be faulty.

8.4 This warranty shall not apply if the goods have been worked upon, altered or damaged in any way by the Customer or its employees or agents, or if it has not been used in accordance with the manufacturer's instructions. The failure of a

product to be Year 2000 complaint does not constitute a defect in materials and workmanship.

9. Special Rules for Clearance Bargains

9.1 Goods sold as 'Clearance Bargains' are down graded goods that Action is able to offer at a discount on the normal catalogue price. Stocks of goods offered as Clearance Bargains are limited and such goods are sold subject to the following special rules. These special rules apply in addition to, and in the event of any conflict override, the other terms and conditions contained herein.

9.2 Clearance Bargains are graded according to the condition of the goods which is described at the point of sale. The length of the guarantee (if any) with the benefit of which the goods are sold is specified in the description of the relevant grade.

9.3 Action makes every effort to ensure that Clearance Bargains are sold on a 'first come, first served basis'. However, the customer accepts that the goods may for some reason become unavailable at any time prior to delivery in, which case Action reserves the right to rescind the contract. In the event of the cancellation of the sale in these circumstances, Action's liability is limited to the return of the purchase price paid by the customer.

10. Action's Liability

10.1 Action shall not under any circumstances be liable for any consequential or indirect damages or losses however caused.

10.2 Action's liability in respect of breach of the terms of any order shall be limited to the invoiced value of such order.

10.3 Nothing in this agreement shall limit Action's liability for death or personal injury caused by its negligence.

11. Health and Safety

In accordance with the Health and Safety at Work etc Act 1974 and the Consumer Protection Act 1987, Action confirms that the goods it supplies as a distributor do not present a hazard to health and safety when properly used for the purpose for which they are designed and when the Customer takes reasonable and normal precautions in their use.

12. Gifts and e-Bonds

12.1 Action will supply manufacturer's gifts as shown in the Catalogue subject to availability.

12.2 Action awards e-Bonds on purchases made over the web. Redemption of the Bonds is covered by these conditions and the information in the Catalogue from time to time. redemption of store vouchers and Air Miles are subject to the rules of those organisations.

12.3 Action reserves the right to change the terms of the Bonds scheme at any time.

12.4 Original Bonds should be sent to Action for redemption; copies are not acceptable. Proof of posting is not proof of delivery and Action accepts no responsibility for Bonds which go astray in the post.

12.5 Action will make reasonable efforts to send vouchers or Air Miles to the Customer within 28 days of receiving the Bonds. If the Customer wants the vouchers sent to a different delivery from the usual address, it must confirm this is writing on its letterhead.

12.6 If a store ceases to participate in the e-Bonds scheme or the Air Miles ceases to run, Action may issue alternative vouchers at its sole discretion.

12.7 e-Bonds are valid for twelve months from the date of issue, are not exchangeable for cash and cannot be transferred. No credit is given for unused points.

12.8 Vouchers and Air Miles are available only to the Customer organisation and not to the individual who places the order.

13. Orderpoint Software Licence Agreement

13.1 The source code in the software is protected by copywright, but the customer may distribute copies within its organisation to facilitate ordering and make necessary back up copies.

13.2 Action disclaims and excludes any and all warranties of merchantability, quality and fitness for purpose. Action does not warrant that the software and documentation will satisfy your requirements or are free from defect or that Orderpoint operation will be uninterrupted.

13.3 Action's liability relating to the use of the software or documentation shall be limited as stated in clause 10 above.

14. General

14.1 If any provision in this Agreement is held to be invalid or unenforceable, it shall be deemed severed from the Agreement and this shall not affect the validity or enforeability of the remaining provisions.

14.2 Any waiver of a breach of this Agreement must be in writing.

14.3 Any variation of this Agreement must be in writing to be valid.

14.4 The headings are for convenience only and shall not affect the interpretation of this Agreement.

14.5 Any notices given under this Agreement shall be in writing and sent (a) by first class pre-paid post to the last known address of the party or (b) by fax to their last known fax number. The notice shall be deemed served (a) two working days after posting or (b) upon receipt of a sucessful transmission report.

14.6 This Agreement shall be governed by and construed in accordance with the laws of England and the parties submit to the exclusive jurisdiction of the English courts.

14.7 Action may at its discretion record telephone transactions for staff training purposes. The tapes are erased after review.

CATALOGUE NO. INDEX

CAT NO.	PAGE
01-08-38	1003
01-17-62	1003
02-29-78	167
04-00-53	507
04-00-60	507
04-00-77	507
04-00-84	507
04-01-01	507
04-01-18	507
04-02-28	514
04-02-35	514
04-02-73	514
04-02-80	514
04-02-97	512
04-04-62	519
04-04-62	522
04-06-06	532
04-06-06	1043
04-06-13	529
04-06-13	532
04-07-16	1026
04-07-23	1026
04-07-47	507
04-08-38	1026
04-08-51	389
04-08-52	977
04-12-03	486
04-12-27	1055
04-12-34	1055
04-12-46	406
04-12-46	1025
04-12-56	962
04-12-58	1055
04-12-89	1052
04-12-96	1052
04-13-06	270
04-13-06	1052
04-13-13	270
04-13-13	1052
04-13-20	1052
04-13-68	1053
04-13-75	1053
04-13-82	1053
04-13-99	1053
04-14-09	1053
04-14-16	1053
04-14-23	1053
04-15-33	135
04-15-33	948
04-15-40	950
04-15-57	950
04-15-88	387
04-16-29	963
04-16-36	961
04-16-36	963
04-16-43	964
04-16-50	964
04-16-74	964
04-16-81	600
04-16-98	600
04-17-08	600
04-17-15	600
04-17-17	1047
04-17-18	1026
04-17-20	413
04-17-22	600
04-17-30	1049
04-17-35	998
04-17-39	600
04-17-46	600
04-17-53	977
04-17-60	600
04-17-63	1025
04-17-67	1057
04-17-68	1026
04-17-73	962
04-17-77	978
04-17-78	978
04-17-84	600
04-17-89	1047
04-17-91	600
04-17-94	1057
04-18-00	998
04-18-01	600
04-18-10	973
04-18-12	972
04-18-13	973
04-18-18	978
04-18-19	970
04-18-22	386
04-18-23	996
04-18-23	1013
04-18-24	380
04-18-25	602
04-18-29	384
04-18-30	529
04-18-30	1050
04-18-32	602
04-18-49	602
04-18-63	602
04-18-70	602
04-18-87	978
04-18-94	602
04-19-04	602
04-19-11	602
04-19-28	602
04-19-35	602
04-19-42	603
04-19-59	603
04-19-66	603
04-19-73	603
04-19-80	603
04-19-97	603
04-20-06	603
04-20-13	603
04-20-20	603
04-20-75	603
04-20-82	604
04-20-99	604
04-21-09	604
04-21-16	604
04-21-23	604
04-21-30	604
04-21-47	604
04-21-54	604
04-21-61	604
04-21-78	604
04-21-85	605
04-21-92	979
04-22-02	605
04-22-19	979
04-22-26	605
04-22-33	605
04-22-40	979
04-22-57	979
04-22-63	422
04-22-63	1026
04-22-64	605
04-22-71	605
04-22-77	998
04-22-84	977
04-22-85	1047
04-22-88	605
04-22-95	605
04-23-05	605
04-23-12	605
04-23-29	606
04-23-36	606
04-23-43	606
04-23-50	606
04-23-67	606
04-23-74	606
04-23-98	606
04-24-08	606
04-24-15	606
04-24-22	606
04-24-39	606
04-24-46	606
04-24-53	606
04-24-60	606
04-24-77	972
04-24-84	972
04-24-91	973
04-24-91	974
04-24-91	975
04-25-01	972
04-25-01	973
04-25-01	975
04-25-18	985
04-25-25	986
04-25-32	986
04-25-49	986
04-25-56	986
04-25-63	986
04-26-04	393
04-26-04	454
04-26-04	455
04-26-04	1026
04-26-11	1026
04-26-28	1025
04-26-35	1025
04-26-42	1025
04-26-59	1025
04-26-66	410
04-26-66	1026
04-26-80	992
04-26-97	992
04-27-07	999
04-27-14	999
04-27-75	287
04-27-83	1043
04-27-87	414
04-28-55	1055
04-29-03	953
04-29-27	953
04-29-41	953
04-29-65	953
04-29-89	953
04-29-96	954
04-30-05	954
04-30-12	954
04-30-29	954
04-30-36	954
04-30-43	954
04-30-50	954
04-30-67	954
04-30-74	955
04-30-81	955
04-30-86	276
04-30-86	1039
04-30-86	1040
04-30-94	408
04-30-94	1025
04-30-98	955
04-31-07	1047
04-31-08	955
04-31-09	1041
04-31-23	973
04-31-24	973
04-31-25	973
04-31-26	1065
04-31-34	1065
04-31-35	958
04-31-35	1011
04-31-38	429
04-31-40	388
04-36-03	323
04-36-80	432
04-36-82	287
04-36-92	414
04-38-23	292
04-38-30	292
04-38-47	292
04-38-96	1025
04-39-09	977
04-40-42	951
04-40-59	951
04-40-73	951
04-40-80	951
04-41-07	951
04-41-14	951
04-41-21	951
04-41-38	951
04-41-45	954
04-41-69	267
04-41-69	1041
04-41-69	1061
04-41-76	1041
04-41-83	1041
04-41-90	1041
04-42-17	1041
04-42-24	267
04-42-24	1041
04-42-24	1042
04-42-24	1061
04-42-31	1041
04-42-31	1042
04-42-55	1041
04-42-55	1044
04-43-27	251
04-43-27	1047
04-43-34	1047
04-43-41	1049
04-44-37	1058
04-44-44	1058
04-44-51	1058
04-44-68	1058
04-44-75	1058
04-44-82	1058
04-44-99	1058
04-45-09	1058
04-45-16	1058
04-45-23	1059
04-45-47	1059
04-45-54	1059
04-45-61	1059
04-45-78	1059
04-45-85	1059
04-45-92	1059
04-46-02	1059
04-46-19	1059
04-46-95	1059
04-47-05	1059
04-47-12	1059
04-47-29	1059
04-47-36	1059
04-47-43	1059
04-47-50	1059
04-47-67	1059
04-47-74	1059
04-47-81	1059
04-47-98	1059
04-48-60	959
04-48-77	959
04-48-84	959
04-48-91	959
04-49-01	959
04-49-47	428
04-49-47	1026
04-49-51	284
04-49-54	410
04-49-54	1026
04-49-64	456
04-49-65	998
04-49-70	986
04-49-74	977
04-49-75	430
04-49-87	986
04-49-94	986
04-50-03	986
04-50-10	986
04-51-68	966
04-51-75	966
04-51-82	966
04-51-99	966
04-52-09	966
04-52-16	966
04-52-23	966
04-52-30	967
04-52-47	967
04-52-54	967
04-52-61	967
04-52-78	967
04-52-85	967
04-52-92	967
04-53-02	967
04-53-19	967
04-53-26	967
04-53-33	967
04-53-40	967
04-53-45	380
04-53-45	381
04-53-45	1025
04-53-46	1047
04-53-48	412
04-53-57	967
04-53-64	967
04-53-66	1039
04-53-66	1040
04-53-67	962
04-53-70	998
04-53-75	973
04-53-76	973
04-53-77	1047
04-53-80	1050
04-53-88	996
04-53-88	1013
04-53-95	996
04-53-95	1013
04-54-05	996
04-54-05	1013
04-54-12	999
04-54-74	1001
04-54-98	1001
04-55-08	1001
04-55-15	1001
04-55-22	966
04-55-39	966
04-55-46	966
04-55-53	966
04-55-60	966
04-56-25	961
04-56-32	961
04-56-49	962
04-56-56	962
04-56-63	963
04-56-70	963
04-56-87	963
04-56-94	963
04-57-04	963
04-57-11	978
04-57-28	978
04-57-35	978
04-57-42	978
04-57-42	979
04-63-32	977
04-63-56	992
04-63-63	992
04-63-70	992
04-66-48	250
04-66-48	1047
04-68-20	1053
04-70-39	998
04-76-76	977
04-81-72	285
04-82-37	418
04-82-37	419
04-82-37	1026
04-83-61	1026
04-83-78	572
04-87-94	391
04-88-66	951
04-88-73	959
04-88-80	959
04-88-97	959
04-89-83	986
04-89-90	992
04-90-09	992
04-90-16	992
04-90-23	999
04-90-30	999
04-90-47	999
04-90-54	1055
04-90-85	1064
04-90-92	1064
04-91-64	1056
04-92-36	1068
04-92-43	1065
04-92-50	972
04-92-67	972
04-92-67	974
04-92-74	972
04-92-81	974
04-92-98	974
04-93-15	1056
04-93-15	1067
04-93-22	1056
04-93-22	1067
04-93-39	1057
04-93-39	1067
04-93-46	620
04-93-53	982
04-93-53	983
04-93-60	982
04-93-60	983
04-93-77	982
04-93-77	983
04-93-84	995
04-93-91	995
04-94-01	995
04-94-18	995
04-94-25	995
04-94-32	995
04-94-49	995
04-94-56	995
04-94-63	995
04-94-70	394
04-94-79	413
04-94-85	1048
04-94-87	1053

CATALOGUE NO. INDEX

CAT NO.	PAGE
04-94-90	1068
04-94-93	998
04-94-98	973
04-95-00	1052
04-95-00	1061
04-95-02	1052
04-95-07	1050
04-95-11	409
04-95-42	1062
04-95-59	1047
04-95-66	1047
04-95-73	1047
04-96-21	420
04-96-38	420
04-96-45	420
04-96-76	1047
04-96-90	394
04-96-90	1026
04-97-00	381
04-97-00	1025
04-97-17	381
04-97-17	1025
04-97-55	420
04-97-55	1026
04-97-62	1025
04-97-79	1025
04-97-86	405
04-97-93	405
04-98-03	405
04-98-27	414
04-98-33	432
05-00-05	377
05-00-05	378
05-00-05	1025
05-00-81	1025
05-00-98	387
05-00-98	1025
05-01-15	387
05-01-15	1025
05-01-22	1026
05-01-46	392
05-01-46	1026
05-01-77	1025
05-01-84	1026
05-01-91	1026
05-02-18	421
05-02-18	1026
05-03-04	1026
05-05-86	540
05-06-65	530
05-06-72	530
05-06-89	530
05-06-96	530
05-07-20	580
05-07-37	580
05-07-44	571
05-07-82	566
05-07-99	567
05-08-09	567
05-08-16	583
05-10-11	590
05-10-28	590
05-10-35	590
05-10-42	590
05-10-59	590
05-10-66	590
05-10-73	600
05-10-80	600
05-10-97	600
05-11-07	600
05-11-14	602
05-11-21	602
05-11-38	602
05-11-45	602
05-11-52	603
05-11-69	603
05-11-76	603
05-11-83	603
05-11-90	604
05-12-00	604
05-12-17	604
05-12-24	604
05-12-31	605
05-12-48	605
05-12-55	605
05-12-62	605
05-13-10	595
05-13-27	595
05-21-82	1026
05-27-59	442
05-27-59	1025
05-27-66	449
05-27-80	443
05-27-80	1026
05-27-97	446
05-27-97	447
05-27-97	1026
05-28-07	444
05-28-14	448
05-28-21	445
05-30-95	1026
05-31-05	1025
05-37-58	595
05-37-65	595
05-37-72	595
05-50-55	281
05-51-89	958
05-51-89	1011
05-51-96	954
05-52-06	954
05-52-37	961
05-52-37	963
05-52-44	961
05-52-51	961
05-52-68	962
05-52-68	964
05-52-75	961
05-52-75	963
05-53-78	387
05-53-85	1025
05-53-92	1025
05-69-68	1071
05-69-75	1071
05-70-15	379
05-70-15	1025
05-70-22	1026
05-70-39	1026
05-70-77	411
05-70-77	1026
05-75-72	539
05-80-07	533
06-00-40	421
06-00-57	421
06-00-64	421
06-00-71	607
06-00-88	607
06-00-95	607
06-01-05	607
06-01-12	607
06-01-29	607
06-01-36	607
06-01-43	607
06-01-50	607
06-01-67	607
06-01-74	607
06-01-81	607
06-01-98	607
06-02-08	607
06-02-80	539
06-03-56	573
06-03-63	573
06-03-70	573
06-03-87	573
06-03-94	573
06-04-04	573
06-04-11	573
06-04-28	573
06-04-35	574
06-04-42	574
06-04-59	574
06-04-66	574
06-05-14	1055
06-05-21	250
06-05-21	1046
06-08-38	608
06-08-39	610
06-08-40	284
06-08-41	568
06-08-46	602
06-08-47	606
06-08-48	608
06-08-49	610
06-08-50	612
06-08-53	623
06-08-54	391
06-08-55	200
06-08-58	512
06-08-59	422
06-12-46	608
06-12-47	610
06-12-52	377
06-12-54	602
06-12-55	606
06-12-56	608
06-12-57	609
06-12-58	612
06-12-60	623
06-12-61	391
06-12-62	200
06-12-63	394
06-12-68	512
06-12-69	377
06-12-70	483
06-12-83	1025
06-15-19	610
06-15-21	613
06-15-22	390
06-15-24	476
06-17-18	608
06-17-20	610
06-17-21	379
06-17-22	419
06-17-25	568
06-17-27	513
06-17-36	383
06-17-37	455
06-17-38	600
06-17-39	605
06-17-41	608
06-17-42	609
06-17-50	382
06-17-68	568
06-17-69	463
06-17-77	463
06-17-80	1046
06-17-85	727
06-17-90	393
06-17-91	457
06-17-92	570
06-17-93	601
06-17-94	604
06-17-96	609
06-18-04	525
06-18-13	388
06-18-21	536
06-18-25	483
06-21-27	511
06-22-63	608
06-22-64	610
06-22-66	568
06-22-71	386
06-22-73	600
06-22-74	605
06-22-75	608
06-22-76	609
06-22-77	612
06-22-82	409
06-22-82	1025
06-22-99	1025
06-23-61	1025
06-24-57	1008
06-25-81	382
06-25-81	1025
06-25-98	383
06-25-98	385
06-25-98	1025
06-27-73	609
06-27-74	610
06-27-75	389
06-27-76	568
06-27-79	602
06-27-80	606
06-27-81	608
06-27-82	610
06-27-83	612
06-27-85	623
06-28-66	395
06-30-78	427
06-30-89	608
06-30-92	282
06-30-96	463
06-31-01	1052
06-31-01	1061
06-31-02	395
06-31-02	396
06-31-02	1026
06-31-08	457
06-31-09	570
06-31-10	570
06-31-11	601
06-31-12	604
06-31-13	608
06-31-14	609
06-31-19	1046
06-31-23	525
06-31-28	388
06-33-22	412
06-33-39	431
06-33-46	406
06-33-46	1025
06-33-53	416
06-33-60	416
06-33-84	422
06-33-91	428
06-34-01	422
06-34-18	392
06-35-42	422
06-36-80	609
06-36-82	568
06-36-84	725
06-36-84	726
06-36-85	603
06-36-86	607
06-36-87	608
06-36-88	610
06-36-91	623
06-36-92	200
06-36-93	571
06-38-72	285
06-38-97	609
06-38-98	610
06-39-04	539
06-39-05	602
06-39-07	606
06-39-08	608
06-39-09	610
06-39-10	612
06-39-15	293
06-45-34	396
06-45-89	416
06-45-89	1026
06-46-82	1043
06-48-88	285
06-49-47	608
06-49-48	610
06-49-55	600
06-49-56	605
06-49-57	608
06-49-58	609
06-49-59	612
06-50-90	513
06-51-55	1042
06-51-62	1041
06-53-48	608
06-53-52	418
06-53-54	609
06-53-60	463
06-53-64	727
06-53-69	382
06-53-70	570
06-53-71	570
06-53-72	601
06-53-73	603
06-53-74	604
06-53-76	607
06-53-77	608
06-53-78	609
06-53-79	609
06-53-80	610
06-53-81	612
06-55-64	294
06-55-71	294
06-56-12	1052
06-56-12	1061
06-56-29	1052
06-56-29	1061
06-56-43	1052
06-56-43	1061
06-58-70	417
06-58-87	417
06-58-94	417
06-59-04	396
06-61-61	428
06-61-78	428
06-62-19	1047
06-62-26	1049
06-62-33	1056
06-62-40	1056
06-62-54	613
06-62-55	390
06-62-57	385
06-62-64	385
06-62-71	379
06-62-71	384
06-62-88	616
06-63-05	602
06-63-12	603
06-63-29	604
06-63-36	605
06-63-43	606
06-63-50	607
06-63-67	379
06-63-67	384
06-63-67	1025
06-63-74	385
06-63-74	1025
06-64-08	381
06-64-53	191
06-64-53	632
06-64-60	191
06-64-60	632
06-64-64	609
06-64-65	568
06-64-66	610
06-64-67	612
06-64-69	348
06-64-84	601
06-64-91	601
06-65-01	601
06-65-18	601
06-65-25	601
06-65-32	601
06-65-49	601
06-65-56	601
06-65-63	601
06-65-70	601
06-65-87	601
06-65-94	601
06-66-04	601
06-66-11	601
06-66-28	601
06-66-35	726
06-66-73	1042
06-68-00	417
06-68-00	1026
06-70-22	608
06-70-23	610
06-70-24	379
06-70-26	419
06-70-30	568
06-70-34	385
06-70-37	600
06-70-38	605
06-70-39	608
06-70-40	609
06-70-45	379
06-70-47	421
06-70-50	616
06-76-57	609
06-76-58	568
06-76-59	727
06-76-60	603
06-76-61	607
06-76-62	609
06-76-63	610
06-76-64	612
06-76-70	609
06-76-71	610
06-76-72	613
06-76-75	454
06-78-01	609
06-78-02	610
06-78-03	613
06-78-06	454
06-78-08	476
06-82-28	610
06-82-29	613
06-82-32	476
06-82-68	344
06-86-64	379

CAT NO.	PAGE
06-86-64	384
06-86-98	386
06-86-99	384
06-94-77	608
06-94-78	610
06-94-79	419
06-94-81	568
06-94-82	454
06-94-89	455
06-94-90	601
06-94-91	604
06-94-92	608
06-94-93	609
06-95-02	483
06-95-67	539
06-98-33	609
06-98-34	568
06-98-36	539
06-98-37	603
06-98-38	607
06-98-39	609
06-98-40	610
06-98-41	612
10-07-66	1062
10-12-47	287
10-17-57	364
10-22-07	533
10-22-64	287
10-28-50	1062
10-28-67	1062
10-43-08	1062
10-48-58	1068
10-49-82	1065
10-50-53	1062
10-50-60	1062
10-50-77	1062
10-50-84	1062
10-53-44	285
10-54-24	1071
10-54-86	1040
10-55-03	1055
10-61-55	1062
10-62-27	1058
10-62-34	1058
10-62-58	1052
10-62-65	1052
10-63-37	1071
10-63-68	1071
10-64-61	1060
10-67-60	1040
10-67-77	1052
10-67-84	1055
10-67-91	533
10-68-01	533
10-72-02	1062
10-72-26	530
10-72-88	1053
10-72-95	1053
10-73-29	1058
10-74-46	1068
10-75-01	1059
10-75-18	1059
10-75-25	1059
10-75-70	1068
10-77-14	528
10-77-21	1052
10-77-76	1058
10-77-83	1058
10-84-14	1060
10-84-45	1040
10-84-52	1040
10-85-17	1055
10-85-24	1053
10-85-31	1053
10-85-48	1059
10-85-55	1059
10-85-62	1059
10-85-93	1059
10-86-03	1059
10-87-37	1047
10-87-75	1068
10-87-82	1068
10-88-30	1055
10-88-47	1053
10-88-54	1059
10-88-61	1059
10-88-78	1059
10-88-85	1058
10-88-92	1059
10-89-02	1059
10-89-19	1059
10-89-26	1059
10-92-31	1052
10-92-31	1061
10-92-62	1071
10-92-79	1071
10-92-86	1071
10-95-30	1059
10-95-85	527
10-95-92	527
10-99-94	1068
11-11-88	516
11-11-88	1054
11-11-95	516
11-11-95	1054
11-12-05	516
11-12-05	1054
11-15-73	1068
11-15-97	1068
11-16-45	1049
11-16-69	1053
11-17-19	1040
11-17-20	1059
11-17-55	1071
11-17-57	1044
11-17-58	1040
11-17-66	1047
11-17-67	1039
11-17-68	1055
11-17-71	1067
11-17-76	1039
11-17-77	1050
11-17-80	1047
11-17-93	1059
11-18-58	1059
11-18-65	1059
11-18-72	1059
11-20-39	1058
11-20-46	1058
11-20-53	1060
11-20-60	1060
11-20-91	1058
11-21-01	1058
11-21-56	1041
11-22-63	1053
11-22-73	516
11-22-80	516
11-22-97	516
11-24-24	533
11-24-31	533
11-25-58	1040
11-25-65	1040
11-25-72	1040
11-25-89	1040
11-25-96	1040
11-26-99	1059
11-27-23	1041
11-27-23	1044
11-27-30	277
11-27-30	1041
11-27-47	277
11-27-47	1041
11-27-47	1044
11-27-72	1071
11-28-02	1059
11-28-19	1059
11-28-71	271
11-28-95	1062
11-29-36	1062
11-29-81	1064
11-30-86	1044
11-30-87	1040
11-30-92	1047
11-30-93	1058
11-30-94	1045
11-30-95	1052
11-30-95	1061
11-30-96	1060
11-30-98	1055
11-31-00	1055
11-31-02	1057
11-31-02	1060
11-31-04	1039
11-31-05	1050
11-31-08	1047
11-31-86	1041
11-31-93	1041
11-31-93	1042
11-32-03	1064
11-32-10	1055
11-32-58	1071
11-32-65	1071
11-32-72	1046
11-33-06	275
11-33-06	1039
11-33-13	275
11-33-13	1039
11-33-68	1057
11-33-82	1055
11-33-99	1055
11-34-09	1067
11-34-23	1053
11-34-30	1064
11-34-61	250
11-34-61	1046
11-35-64	1041
11-35-64	1042
11-38-95	1071
11-39-04	420
11-39-04	978
11-40-20	992
11-41-16	1040
11-41-23	1040
11-41-30	430
11-41-30	950
11-41-47	430
11-41-47	950
11-41-54	430
11-41-54	950
11-41-61	430
11-41-61	950
11-41-78	950
11-41-85	951
11-42-57	1007
11-42-64	1007
11-42-71	1007
11-42-88	1007
11-42-95	1007
11-43-05	1053
11-43-12	1057
11-43-29	1057
11-43-50	1039
11-43-67	1039
11-43-81	1040
11-44-39	956
11-44-60	1056
11-44-60	1060
11-44-77	1056
11-44-84	1057
11-44-84	1060
11-44-91	1057
11-45-01	1041
11-45-25	1046
11-45-63	1050
11-46-35	1064
11-46-42	1065
11-46-59	1065
11-46-66	1065
11-46-73	1065
11-46-80	1065
11-46-97	1065
11-47-07	1065
11-47-14	1065
11-47-21	1065
11-47-38	1065
11-47-45	1065
11-47-52	1041
11-47-76	1041
11-47-83	1041
11-47-83	1042
11-48-17	1057
11-48-62	1071
11-48-79	1071
11-49-27	1044
11-49-58	1062
11-49-65	1064
11-49-96	1057
11-50-29	1039
11-50-36	1039
11-50-43	1039
11-50-50	249
11-50-50	1046
11-50-50	1060
11-50-67	1045
11-50-74	1045
11-50-81	1045
11-50-98	1040
11-51-15	1047
11-51-84	1039
11-51-91	1039
11-51-91	1040
11-52-01	1052
11-52-18	1052
11-52-25	1052
11-52-32	1052
11-52-49	1048
11-52-49	1060
11-52-56	1045
11-53-45	1040
11-53-48	1052
11-53-49	1048
11-53-49	1060
11-53-51	1055
11-53-54	1050
11-94-76	1059
11-94-77	1040
11-94-79	1045
12-00-38	530
12-00-38	1054
12-00-45	530
12-00-45	1054
12-00-52	528
12-03-75	528
12-04-61	530
12-04-78	530
12-04-85	530
12-04-92	530
12-05-02	530
12-05-64	527
12-05-64	1051
12-08-54	482
12-08-55	271
12-08-57	505
12-08-66	346
12-08-81	907
12-08-91	399
12-08-96	465
12-08-99	411
12-09-00	458
12-09-00	950
12-09-18	419
12-09-28	508
12-09-62	102
12-09-70	492
12-09-84	167
12-09-90	898
12-10-05	527
12-10-05	1051
12-10-06	528
12-10-09	196
12-10-11	531
12-10-12	211
12-10-14	519
12-10-16	231
12-10-19	833
12-10-30	825
12-10-30	938
12-10-31	938
12-10-36	291
12-10-43	865
12-10-49	268
12-10-50	236
12-10-54	350
12-10-55	290
12-10-56	328
12-10-57	481
12-10-60	363
12-10-63	274
12-10-64	254
12-10-68	256
12-10-69	502
12-10-73	539
12-10-74	319
12-10-75	338
12-10-76	262
12-10-81	413
12-10-84	273
12-10-85	826
12-10-88	231
12-10-92	307
12-10-96	479
12-10-98	353
12-10-99	942
12-10-99	943
12-11-00	261
12-11-01	538
12-11-02	538
12-11-04	836
12-11-04	938
12-11-05	453
12-11-07	901
12-11-10	825
12-11-11	252
12-11-14	165
12-11-14	322
12-11-18	407
12-11-22	500
12-11-26	484
12-11-28	485
12-11-30	318
12-11-31	535
12-11-32	271
12-11-35	358
12-11-36	257
12-11-38	434
12-11-40	943
12-11-41	944
12-11-42	480
12-11-45	477
12-11-50	486
12-11-53	279
12-11-56	429
12-11-58	145
12-11-62	851
12-11-68	430
12-11-69	342
12-11-70	370
12-11-71	414
12-11-72	474
12-11-73	316
12-11-74	376
12-11-75	362
12-11-76	457
12-11-77	496
12-11-79	401
12-11-80	401
12-11-81	939
12-11-82	480
12-11-83	932
12-11-84	930
12-11-85	487
12-11-86	934
12-11-89	933
12-21-31	123
12-21-39	358
12-21-42	206
12-21-43	902
12-21-48	943
12-30-86	123
12-38-95	273
13-08-22	98
13-08-46	167
13-10-96	194
13-11-06	200
13-14-81	178
13-14-81	224
13-41-34	397
13-65-96	60
13-77-91	98
13-88-79	71
13-89-10	179
13-93-97	185
13-96-34	98
14-11-27	198
14-37-09	130
15-00-22	197
15-44-13	130
15-56-18	193
15-56-70	193
15-58-76	194
15-62-91	195
15-66-17	195
15-78-74	196
15-91-26	196
15-91-95	196
16-00-29	79
16-07-68	193
17-02-22	241
17-05-14	98
17-08-38	614

CATALOGUE NO. INDEX

CAT NO.	PAGE
17-08-49	182
17-12-68	79
17-18-41	96
17-19-14	79
17-23-85	93
17-31-13	104
17-53-47	185
17-53-84	65
17-95-36	98
18-01-95	151
19-09-00	98
19-17-59	98
19-23-54	167
19-35-61	167
19-36-96	98
19-51-99	98
19-52-09	167
19-53-87	167
19-54-29	167
19-71-21	167
19-82-54	167
19-88-72	167
20-00-82	990
20-00-82	992
20-00-82	1012
20-00-99	990
20-00-99	992
20-00-99	1012
20-08-38	317
20-12-46	303
20-12-47	298
20-14-00	193
20-17-19	318
20-17-21	322
20-17-22	311
20-17-23	317
20-17-62	318
20-17-63	298
20-17-64	299
20-17-70	298
20-17-72	319
20-21-83	951
20-22-65	310
20-26-02	992
20-27-72	307
20-28-77	966
20-29-18	967
20-29-49	967
20-30-58	966
20-30-65	447
20-30-65	966
20-30-89	966
20-30-91	318
20-30-92	298
20-30-94	300
20-31-13	986
20-31-20	986
20-31-37	986
20-31-44	986
20-31-51	986
20-31-75	986
20-31-82	986
20-32-30	986
20-32-78	986
20-33-19	986
20-33-26	986
20-36-80	307
20-36-81	319
20-36-94	978
20-38-95	162
20-38-95	320
20-40-33	992
20-40-57	992
20-40-64	992
20-43-01	967
20-44-35	986
20-44-42	986
20-45-76	1000
20-45-83	1000
20-45-90	1000
20-46-31	983
20-46-31	984
20-46-48	983
20-46-55	983
20-46-62	983
20-47-41	951
20-47-89	951
20-48-13	951
20-49-48	317
20-49-49	298
20-52-52	964
20-52-90	986
20-53-47	318
20-53-49	151
20-53-49	322
20-53-50	317
20-53-51	300
20-53-52	298
20-53-53	317
20-55-82	950
20-55-82	977
20-56-30	1001
20-56-47	1001
20-56-61	1001
20-56-85	1001
20-58-43	967
20-58-50	965
20-58-67	965
20-60-93	986
20-62-37	951
20-62-68	951
20-63-61	992
20-63-78	992
20-63-92	988
20-70-16	951
20-70-21	311
20-70-22	306
20-70-23	951
20-70-24	318
20-70-25	298
20-70-26	311
20-72-05	974
20-74-63	443
20-74-63	966
20-74-87	967
20-75-28	992
20-75-73	967
20-76-45	481
20-76-45	1014
20-78-10	986
20-78-27	986
20-78-72	988
20-79-13	994
20-79-13	996
20-79-13	1013
20-79-20	994
20-79-20	996
20-79-20	1013
20-79-37	995
20-79-44	994
20-79-44	996
20-79-44	1013
20-84-31	974
20-84-62	974
20-86-37	988
20-86-75	1000
20-88-64	995
20-89-81	445
20-89-81	995
20-89-98	995
20-89-98	996
20-89-98	1013
20-91-00	967
20-91-48	988
20-92-27	964
20-92-41	986
20-92-72	951
20-94-75	300
20-94-79	318
20-94-80	139
20-94-80	140
20-94-80	141
20-94-80	145
20-94-80	322
20-94-83	317
20-99-04	950
20-99-04	977
20-99-35	988
20-99-42	988
20-99-66	988
21-00-41	965
21-00-58	963
21-01-06	973
21-01-13	973
21-01-20	973
21-01-75	973
21-01-75	974
21-01-75	975
21-03-19	975
21-04-29	975
21-04-81	975
21-04-98	1000
21-05-53	1000
21-05-91	994
21-06-01	994
21-06-18	994
21-06-25	995
21-06-32	999
21-06-49	999
21-06-56	999
21-06-63	995
21-07-04	990
21-07-04	992
21-07-04	1012
21-07-11	990
21-07-11	992
21-07-11	1012
21-08-07	443
21-08-07	967
21-09-48	988
21-09-86	951
21-11-05	958
21-11-05	1011
21-12-46	1001
21-12-60	1001
21-12-84	983
21-12-84	984
21-14-73	995
21-14-73	996
21-14-73	1013
21-18-82	982
21-18-82	983
21-19-30	978
21-19-61	954
21-20-49	1000
21-29-46	959
21-29-53	959
21-29-60	959
21-32-82	972
21-33-30	972
21-33-30	974
21-34-64	951
21-34-95	966
21-35-05	967
21-35-81	965
21-36-77	964
21-37-01	956
21-37-01	958
21-37-01	1011
21-39-69	986
21-40-30	956
21-40-47	954
21-40-54	954
21-40-61	954
21-40-78	954
21-41-02	988
21-41-19	995
21-41-26	994
21-41-26	996
21-41-26	1013
21-41-57	995
21-41-57	996
21-41-57	1013
21-42-12	974
21-42-29	974
21-42-36	974
21-42-43	974
21-42-50	996
21-42-50	1013
21-42-67	996
21-42-67	1013
21-44-32	995
21-44-49	995
21-46-76	967
21-47-17	950
21-47-17	978
21-48-65	954
21-48-72	982
21-48-72	983
21-48-89	982
21-48-89	983
21-48-96	982
21-48-96	983
21-49-06	982
21-49-06	983
21-49-37	992
21-49-44	992
21-50-08	992
21-50-15	949
21-50-22	949
21-50-39	949
21-50-46	949
21-50-77	135
21-50-77	949
21-50-84	135
21-50-84	949
21-50-91	949
21-51-25	948
21-51-32	948
21-51-49	948
21-51-56	948
21-53-76	983
21-53-76	984
21-53-83	983
21-53-83	984
21-54-17	983
21-54-17	984
21-54-24	983
21-54-31	983
21-54-86	956
21-54-93	982
21-54-93	983
21-57-78	1001
21-58-88	954
21-58-95	954
21-59-05	954
21-60-69	963
21-61-00	994
21-61-17	994
21-61-24	966
21-61-31	966
21-62-41	1000
21-62-58	1000
21-62-89	982
21-62-89	983
21-62-96	1000
21-64-16	996
21-64-16	1013
21-64-47	999
21-64-85	949
21-64-92	965
21-65-02	963
21-66-36	961
21-66-43	961
21-66-74	967
21-67-53	994
21-67-53	996
21-67-53	1013
21-67-77	994
21-68-94	965
21-69-11	995
21-69-28	978
21-69-35	988
21-70-20	447
21-70-20	967
21-70-37	967
21-70-44	967
21-70-51	950
21-70-51	1010
21-70-68	950
21-70-68	1010
21-71-16	379
21-71-16	955
21-71-16	958
21-71-16	1011
21-71-23	955
21-71-23	958
21-71-23	1011
21-71-30	955
21-71-30	958
21-71-30	1011
21-71-47	955
21-71-47	958
21-71-47	1011
21-71-61	995
21-71-78	995
21-71-92	996
21-71-92	1013
21-72-26	958
21-72-26	1011
21-72-64	966
21-72-71	966
21-72-88	445
21-72-88	995
21-73-36	965
21-73-43	983
21-73-43	984
21-73-50	983
21-73-50	984
21-73-81	997
21-73-98	997
21-74-08	997
21-74-15	997
21-74-39	997
21-74-46	997
21-74-53	997
21-75-32	985
21-75-49	985
21-75-56	979
21-75-63	979
21-75-70	979
21-75-87	979
21-75-94	979
21-77-07	954
21-77-14	135
21-77-14	948
21-78-17	1002
21-78-24	1002
21-78-31	1002
21-78-48	1002
21-78-55	1006
21-78-62	1006
21-78-93	1006
21-79-03	1006
21-79-10	1006
21-79-41	135
21-79-41	949
21-79-58	135
21-79-58	949
21-79-65	978
21-79-89	988
21-80-29	454
21-80-29	948
21-80-29	972
21-80-36	389
21-80-36	454
21-80-36	948
21-80-36	972
21-80-43	390
21-80-43	391
21-80-43	392
21-80-43	393
21-80-43	394
21-80-43	972
21-80-43	973
21-80-43	975
21-80-50	972
21-80-67	481
21-80-67	1014
21-80-74	994
21-80-81	995
21-82-18	948
21-82-25	948
21-82-32	948
21-82-49	948
21-83-42	377
21-83-42	378
21-83-42	953
21-83-59	377
21-83-59	378
21-83-59	953
21-83-66	953
21-83-73	953
21-83-80	953
21-85-17	1002
21-86-03	1006
21-86-10	1006
21-88-78	959
21-88-92	959
21-89-19	959
21-89-26	959
21-89-33	959
21-89-40	959
21-89-57	959
21-89-64	959
21-91-38	959
21-91-45	959
21-91-90	959
21-92-00	959
21-92-62	959

CAT NO.	PAGE
21-95-86	539
21-95-87	864
21-97-98	983
21-98-08	983
21-98-46	986
21-98-77	986
21-99-49	997
21-99-56	997
22-00-24	992
22-00-55	992
22-00-62	956
22-00-62	1014
22-00-79	956
22-00-79	1014
22-00-86	956
22-00-86	1014
22-00-93	956
22-00-93	1014
22-02-82	999
22-02-99	999
22-03-92	1005
22-04-02	1005
22-04-19	1005
22-04-26	1005
22-04-33	1005
22-04-57	1006
22-04-88	996
22-04-88	1013
22-10-78	961
22-10-78	963
22-10-92	970
22-11-19	456
22-11-19	978
22-11-57	956
22-12-46	465
22-12-46	471
22-12-47	322
22-12-48	432
22-14-18	1001
22-14-25	421
22-14-25	977
22-14-25	978
22-14-25	979
22-14-32	956
22-14-49	972
22-14-63	135
22-14-63	948
22-14-70	135
22-14-70	948
22-14-87	948
22-14-94	948
22-15-19	440
22-15-28	948
22-15-35	948
22-15-42	948
22-15-59	948
22-15-66	949
22-15-73	949
22-15-80	949
22-15-97	949
22-17-17	959
22-17-57	377
22-17-59	397
22-17-62	978
22-17-66	304
22-17-79	979
22-17-86	979
22-17-86	981
22-18-89	990
22-18-89	991
22-18-89	992
22-18-89	1012
22-18-96	990
22-18-96	991
22-18-96	992
22-18-96	1012
22-19-51	999
22-19-75	999
22-20-15	999
22-20-22	999
22-20-39	999
22-22-73	1009
22-22-80	1009
22-23-83	967
22-24-00	965
22-24-17	965
22-24-24	963
22-27-30	465
22-27-61	974
22-27-61	975
22-27-72	439
22-27-78	974
22-27-78	975
22-27-85	974
22-27-85	975
22-27-92	954
22-28-02	1000
22-29-81	961
22-29-81	963
22-30-38	966
22-30-86	377
22-31-24	978
22-31-31	979
22-31-46	440
22-31-48	979
22-31-55	979
22-31-62	979
22-31-79	979
22-31-93	979
22-32-03	1000
22-32-27	994
22-32-34	995
22-32-89	1005
22-32-96	1005
22-33-06	1005
22-33-13	1005
22-33-75	990
22-33-75	992
22-33-75	1012
22-33-82	990
22-33-82	992
22-33-82	1012
22-34-68	440
22-34-92	397
22-36-67	997
22-36-74	997
22-36-80	439
22-36-81	997
22-36-98	997
22-37-08	997
22-37-22	997
22-37-46	997
22-37-53	997
22-37-60	997
22-39-28	1065
22-39-73	1006
22-39-80	1006
22-39-97	1006
22-40-11	440
22-40-13	1006
22-40-51	1006
22-40-75	1007
22-40-82	1007
22-40-99	1007
22-41-09	1007
22-41-54	1007
22-41-92	1007
22-42-02	1007
22-42-19	1007
22-42-26	1007
22-45-56	962
22-45-56	964
22-45-63	961
22-45-63	963
22-45-87	948
22-45-94	135
22-45-94	949
22-46-04	951
22-46-42	959
22-46-97	985
22-47-07	982
22-47-07	983
22-47-14	982
22-47-14	983
22-48-17	1006
22-48-31	1006
22-48-48	1006
22-48-55	1006
22-48-62	1006
22-48-79	1002
22-48-86	1002
22-48-93	1002
22-49-03	1002
22-49-10	1009
22-49-27	1009
22-49-34	1009
22-49-50	286
22-49-53	112
22-49-53	113
22-49-68	482
22-49-69	271
22-49-70	505
22-49-94	314
22-49-99	108
22-49-99	226
22-50-02	907
22-50-10	365
22-50-14	423
22-50-15	399
22-50-18	122
22-50-27	411
22-50-28	458
22-50-28	950
22-50-54	419
22-50-61	377
22-50-74	1009
22-50-91	389
22-51-15	1009
22-51-18	511
22-51-22	1009
22-51-25	492
22-51-32	176
22-51-44	98
22-51-46	1009
22-51-69	527
22-51-69	1051
22-51-72	199
22-51-73	195
22-51-76	531
22-51-90	915
22-51-92	182
22-51-96	935
22-51-98	490
22-52-05	493
22-52-06	291
22-52-07	505
22-52-12	483
22-52-14	485
22-52-15	310
22-52-16	304
22-52-17	535
22-52-19	271
22-52-20	276
22-52-21	391
22-52-22	469
22-52-24	337
22-52-26	257
22-52-28	434
22-52-29	942
22-52-30	394
22-52-33	943
22-52-34	943
22-52-35	480
22-52-36	509
22-52-37	342
22-52-39	477
22-52-41	252
22-52-50	270
22-52-57	388
22-52-59	429
22-52-61	253
22-52-62	454
22-52-71	458
22-52-74	930
22-52-77	885
22-52-78	430
22-52-79	342
22-52-81	370
22-52-82	414
22-52-83	356
22-52-84	474
22-52-85	308
22-52-86	376
22-52-88	362
22-52-89	252
22-52-90	473
22-52-91	432
22-52-92	472
22-52-93	401
22-52-95	401
22-52-96	937
22-53-00	440
22-53-01	480
22-53-02	932
22-53-03	930
22-53-05	487
22-53-06	462
22-53-08	934
22-53-53	432
22-53-54	439
22-53-66	389
22-53-66	454
22-53-66	972
22-53-80	1009
22-53-97	1009
22-60-67	440
22-62-54	440
22-63-03	990
22-63-03	991
22-63-58	985
22-63-96	958
22-63-96	1011
22-64-13	954
22-64-20	954
22-64-37	379
22-64-37	955
22-64-44	379
22-64-44	955
22-64-51	954
22-64-65	440
22-64-68	955
22-65-09	988
22-65-30	990
22-66-40	965
22-67-74	458
22-67-74	950
22-67-74	1010
22-67-81	458
22-67-81	950
22-67-81	1010
22-67-98	958
22-67-98	1011
22-68-15	999
22-69-18	985
22-69-25	985
22-69-49	999
22-70-41	1000
22-70-58	1001
22-71-75	1009
22-72-47	387
22-72-47	962
22-72-54	387
22-72-54	962
22-74-05	961
22-74-36	972
22-74-50	966
22-74-67	967
22-74-74	982
22-74-74	983
22-74-81	982
22-74-81	983
22-75-15	978
22-75-39	1006
22-75-46	1006
22-75-53	1006
22-75-60	1006
22-75-77	1006
22-76-57	440
22-76-72	440
22-76-94	1007
22-77-04	1007
22-77-73	996
22-77-73	1013
22-78-38	1000
22-78-53	440
22-78-69	963
22-78-76	963
22-78-83	963
22-78-90	963
22-81-69	527
22-82-39	964
22-82-60	956
22-83-87	1008
22-83-94	1008
22-84-04	1008
22-84-11	1008
22-84-28	1008
22-84-35	1008
22-84-42	1008
22-84-59	985
22-84-66	985
22-84-80	988
22-86-17	961
22-86-93	950
22-86-93	1010
22-87-03	950
22-87-03	1010
22-87-10	461
22-87-27	950
22-87-34	950
22-87-41	950
22-87-58	950
22-87-65	950
22-87-72	950
22-87-89	950
22-87-96	956
22-89-09	988
22-89-23	1005
22-89-30	1005
22-89-47	1005
22-89-54	1005
22-89-61	1002
22-89-78	1002
22-89-85	1002
22-89-92	1002
22-90-01	1003
22-90-18	1003
22-90-25	1003
22-90-32	1003
22-90-49	1003
22-90-56	1003
22-90-63	465
22-90-63	996
22-90-63	1013
22-91-11	953
22-91-28	1006
22-91-35	1007
22-91-42	978
22-91-59	978
22-91-66	465
22-91-71	440
22-91-73	1041
22-91-73	1044
22-92-83	1006
22-93-00	1007
22-93-14	440
22-93-17	1007
22-93-24	1008
22-93-31	1008
22-93-48	1008
22-93-55	1008
22-93-62	1008
22-93-79	1008
22-93-86	1008
22-93-93	991
22-94-10	988
22-94-41	975
22-94-58	975
22-94-65	975
22-94-72	975
22-94-89	975
22-94-96	975
22-95-06	975
22-95-13	975
22-95-20	995
22-95-37	381
22-95-37	956
22-95-44	381
22-95-44	956
22-95-51	956
22-95-75	956
22-96-09	995
22-96-16	956
22-96-78	999
22-96-85	436
22-96-85	998
22-96-92	436
22-96-92	998
22-97-02	436
22-97-02	998
22-97-19	436
22-97-19	998
22-97-33	998
22-97-40	998
22-97-64	991
22-97-71	991
22-97-88	991
22-97-95	991
22-98-33	432
22-98-34	439

CATALOGUE NO. INDEX

CAT NO.	PAGE
22-98-36	1000
22-99-08	1009
23-00-07	956
23-00-14	956
23-00-21	956
23-00-38	135
23-00-38	949
23-00-45	949
23-00-52	1007
23-01-48	963
23-01-55	963
23-01-62	965
23-01-79	965
23-01-86	994
23-01-93	994
23-02-03	994
23-02-10	994
23-02-27	995
23-02-34	994
23-02-41	994
23-02-65	985
23-02-72	985
23-02-89	985
23-02-96	985
23-03-06	985
23-03-13	983
23-03-13	984
23-03-20	983
23-03-20	984
23-03-37	983
23-03-37	984
23-03-44	983
23-03-44	984
23-03-51	984
23-03-68	983
23-03-68	984
23-03-75	984
23-03-82	984
23-03-99	984
23-04-09	983
23-04-09	984
23-04-16	983
23-04-16	984
23-04-23	982
23-04-47	982
23-04-47	983
23-04-54	982
23-04-54	983
23-04-61	982
23-04-61	983
23-04-78	982
23-04-78	983
23-04-85	982
23-04-85	983
23-06-12	1015
23-06-43	437
23-06-43	1000
23-06-50	437
23-06-50	1000
23-06-67	437
23-06-67	1000
23-06-74	437
23-06-74	1000
23-06-81	437
23-06-81	1000
23-06-98	1000
23-07-08	1001
23-07-15	1001
23-07-22	1009
23-07-39	985
23-08-25	991
23-08-32	991
23-08-39	975
23-08-40	985
23-08-42	1016
23-08-43	1014
23-08-46	1015
23-08-47	998
23-08-49	379
23-08-49	382
23-08-49	384
23-08-49	962
23-08-49	964
23-08-50	955
23-08-51	956
23-08-52	1007
23-08-56	962
23-08-63	382
23-08-63	383
23-08-63	962
23-08-70	970
23-08-87	970
23-08-94	970
23-09-04	970
23-09-11	970
23-09-28	970
23-09-35	970
23-09-42	973
23-09-59	973
23-09-66	973
23-09-73	973
23-09-80	973
23-09-97	973
23-10-06	973
23-10-13	973
23-10-20	965
23-10-37	965
23-10-44	965
23-10-51	965
23-10-68	965
23-10-75	965
23-10-82	965
23-11-09	1009
23-11-16	416
23-11-16	978
23-11-23	422
23-11-23	977
23-11-23	979
23-11-30	977
23-11-47	977
23-11-54	977
23-11-61	977
23-11-78	977
23-11-85	977
23-11-92	977
23-12-02	977
23-12-40	431
23-12-47	975
23-12-48	985
23-12-50	1016
23-12-51	1014
23-12-55	1015
23-12-57	431
23-12-59	998
23-12-60	1003
23-12-61	991
23-12-63	956
23-12-64	431
23-12-65	1007
23-12-66	1005
23-12-95	955
23-13-50	1001
23-13-67	1001
23-13-74	1001
23-13-98	1001
23-15-19	964
23-15-20	1014
23-15-21	1015
23-15-25	1008
23-15-49	1008
23-15-56	1008
23-15-63	1008
23-15-70	1008
23-15-87	1008
23-15-94	1008
23-16-04	1008
23-16-11	1008
23-16-35	977
23-16-42	977
23-16-59	977
23-16-73	991
23-16-80	991
23-16-97	1003
23-16-97	1004
23-17-07	1003
23-17-07	1004
23-17-14	1003
23-17-14	1004
23-17-19	962
23-17-20	394
23-17-20	972
23-17-20	973
23-17-21	1003
23-17-21	1004
23-17-24	975
23-17-25	985
23-17-26	1010
23-17-28	1001
23-17-31	1015
23-17-33	435
23-17-33	998
23-17-34	433
23-17-34	1003
23-17-35	1003
23-17-36	991
23-17-37	386
23-17-37	964
23-17-39	956
23-17-40	1007
23-17-41	1005
23-17-58	1009
23-17-59	1009
23-17-60	994
23-17-64	962
23-17-65	389
23-17-66	988
23-17-67	1009
23-17-68	983
23-17-72	1012
23-17-73	950
23-17-74	956
23-17-75	977
23-17-79	391
23-17-79	393
23-17-79	972
23-17-79	973
23-17-80	966
23-17-81	1012
23-17-82	995
23-17-89	1012
23-17-96	1010
23-17-98	1003
23-17-99	950
23-18-02	991
23-18-03	972
23-18-04	1009
23-18-07	1005
23-18-93	1010
23-19-03	1010
23-19-27	1010
23-22-66	975
23-22-67	985
23-22-68	988
23-22-69	1010
23-22-71	1016
23-22-72	1014
23-22-76	1015
23-22-79	998
23-22-80	991
23-22-82	964
23-22-83	1007
23-22-84	1005
23-24-69	1016
23-25-24	1003
23-25-24	1004
23-25-31	1003
23-25-31	1004
23-25-48	1003
23-25-48	1004
23-25-55	1003
23-25-55	1004
23-25-62	1004
23-25-62	1006
23-25-79	1004
23-25-79	1006
23-25-86	1004
23-25-86	1006
23-25-93	1004
23-25-93	1006
23-26-03	1004
23-26-03	1006
23-26-10	1004
23-26-10	1006
23-26-27	1004
23-26-27	1006
23-26-34	1004
23-26-34	1006
23-26-41	1004
23-26-41	1006
23-26-58	1004
23-26-58	1006
23-26-65	1004
23-26-65	1006
23-26-72	1004
23-26-72	1006
23-26-89	1004
23-26-89	1006
23-26-96	1003
23-27-06	1003
23-27-13	1003
23-27-20	1003
23-27-73	985
23-27-76	1014
23-27-78	1015
23-27-80	955
23-27-83	1005
23-28-30	1001
23-28-47	379
23-28-47	384
23-28-47	962
23-28-54	962
23-28-61	962
23-28-78	997
23-28-85	997
23-28-92	997
23-29-02	997
23-29-33	381
23-29-33	955
23-29-40	381
23-29-40	955
23-29-57	381
23-29-57	955
23-29-64	978
23-30-88	995
23-30-90	108
23-30-90	278
23-30-90	1039
23-30-91	962
23-30-93	1009
23-30-94	982
23-30-94	983
23-30-95	1012
23-30-96	950
23-30-97	462
23-30-97	951
23-30-98	1016
23-30-99	1012
23-31-05	1003
23-31-06	1003
23-31-09	991
23-31-10	972
23-31-11	1009
23-31-13	972
23-31-16	956
23-31-17	991
23-31-18	1005
23-31-46	1014
23-31-47	1015
23-34-68	1014
23-36-81	1002
23-36-82	985
23-36-84	1016
23-36-85	1014
23-36-87	1015
23-36-90	1005
23-38-91	1015
23-38-96	975
23-38-97	985
23-38-99	1016
23-39-00	1014
23-39-03	1015
23-39-04	955
23-39-06	1007
23-39-07	1005
23-40-11	1014
23-40-12	1016
23-47-77	894
23-47-77	910
23-49-49	975
23-49-50	985
23-49-51	1010
23-49-52	1016
23-49-53	1014
23-49-58	998
23-49-60	386
23-49-60	964
23-49-61	1007
23-49-62	1005
23-51-97	1014
23-51-98	1016
23-53-47	108
23-53-47	278
23-53-47	1039
23-53-48	962
23-53-49	1009
23-53-50	407
23-53-50	965
23-53-52	950
23-53-54	1002
23-53-55	978
23-53-57	951
23-53-58	1010
23-53-59	1012
23-53-60	1014
23-53-63	1015
23-53-64	1015
23-53-67	435
23-53-67	998
23-53-68	1003
23-53-69	1003
23-53-72	998
23-53-73	1003
23-53-75	991
23-53-76	991
23-53-77	1009
23-53-78	1009
23-53-81	956
23-53-82	955
23-53-83	991
23-53-85	1005
23-58-18	1015
23-60-67	1014
23-60-68	1016
23-62-54	1014
23-62-55	1015
23-64-65	1002
23-64-67	1014
23-64-68	1015
23-67-44	1015
23-70-23	975
23-70-24	985
23-70-26	1010
23-70-27	1016
23-70-31	1015
23-70-33	435
23-70-33	998
23-70-34	433
23-70-34	1003
23-70-35	991
23-70-38	956
23-70-39	1007
23-70-40	1005
23-75-83	1015
23-76-57	1002
23-76-59	1014
23-76-61	1015
23-76-63	957
23-76-71	1002
23-76-73	1014
23-76-74	1015
23-78-02	1014
23-78-03	1015
23-78-05	955
23-78-53	1014
23-78-54	1016
23-82-29	1014
23-82-30	1015
23-86-64	1015
23-86-98	1014
23-86-99	1016
23-91-71	1014
23-91-72	1016
23-93-14	1014
23-93-15	1016
23-94-76	962
23-94-77	1009
23-94-78	415
23-94-79	950
23-94-80	998
23-94-81	1008
23-94-82	951
23-94-83	1010
23-94-84	1012
23-94-86	1015
23-94-89	435
23-94-89	998
23-94-90	1003
23-94-91	433
23-94-91	1003
23-94-93	998

CAT NO.	PAGE
23-94-95	955
23-94-95	956
23-94-97	1005
23-98-34	1002
23-98-35	985
23-98-37	1016
23-98-38	1014
23-98-41	955
24-03-27	1012
24-04-82	179
24-04-99	423
24-07-50	96
24-11-13	819
24-11-51	1016
24-12-54	398
24-17-11	271
24-19-17	185
24-20-26	163
24-23-94	182
24-24-73	423
24-24-97	423
24-28-06	593
24-29-16	33
24-29-16	179
24-31-11	398
24-31-42	423
24-41-03	720
24-43-06	197
25-05-37	730
25-05-37	907
25-05-37	908
25-07-19	96
25-08-50	176
25-11-41	465
25-12-99	730
25-12-99	908
25-15-19	176
25-17-20	163
25-27-86	93
25-27-93	96
25-29-37	33
25-29-37	179
25-30-46	567
25-30-87	162
25-34-24	194
25-36-75	71
25-36-99	104
25-39-81	423
25-40-83	423
25-41-48	195
25-43-51	1001
25-53-45	163
25-54-91	96
25-55-56	185
25-56-04	185
25-59-10	423
25-63-59	95
25-63-97	130
25-64-14	730
25-64-14	907
25-64-14	908
25-64-21	730
25-64-21	907
25-64-21	908
25-66-34	71
25-67-20	185
25-67-37	185
25-67-99	398
25-68-09	424
25-69-19	33
25-69-19	179
25-70-22	162
25-70-23	163
25-71-14	465
25-71-76	461
25-71-76	465
25-71-76	1010
25-72-62	79
25-72-79	79
25-73-27	465
25-74-51	163
25-75-85	423
25-75-92	423
25-76-02	423
25-77-29	182
25-78-54	176
25-79-32	437
25-79-49	437
25-80-10	395
25-81-20	1014
25-87-42	443
25-87-73	465
25-87-80	465
25-88-21	356
25-88-83	93
25-88-90	92
25-88-90	94
25-89-24	376
25-89-55	376
25-89-62	431
25-90-02	342
25-90-19	182
25-90-19	225
25-90-57	416
25-90-64	416
25-93-14	176
25-94-75	163
25-95-83	406
25-95-90	406
25-96-00	406
25-97-27	409
25-97-89	397
25-97-96	397
25-98-13	422
25-98-20	428
25-98-33	61
25-98-33	62
25-98-33	64
25-98-35	63
25-98-37	428
25-98-44	428
25-98-99	133
25-98-99	392
25-99-47	442
25-99-54	198
26-00-08	422
26-00-15	422
26-02-66	701
26-04-17	342
26-06-75	397
26-08-19	1012
26-09-74	432
26-10-14	92
26-10-52	432
26-10-69	432
26-10-76	432
26-11-17	176
26-12-47	422
26-14-54	72
26-17-71	955
26-17-75	79
26-17-76	122
26-18-32	653
26-18-56	376
26-19-80	92
26-22-88	345
26-23-43	342
26-25-87	163
26-26-73	71
26-27-07	71
26-35-17	176
26-36-34	252
26-40-80	163
26-49-63	121
27-36-84	331
27-36-91	499
27-36-94	299
27-36-95	305
27-36-96	334
27-36-97	406
27-37-00	357
29-03-08	35
29-03-15	35
29-03-22	35
29-03-39	35
29-03-46	35
29-03-53	35
29-03-60	35
29-03-77	35
29-03-84	35
29-04-18	35
29-04-25	35
29-04-32	35
29-04-63	35
29-04-70	35
29-04-87	35
29-05-04	35
29-05-11	35
29-05-28	35
29-05-42	35
29-05-59	35
29-05-66	35
29-05-73	36
29-05-80	36
29-05-97	36
29-06-07	36
29-06-14	36
29-06-21	36
29-06-38	36
29-06-45	36
29-06-52	36
29-07-31	36
29-07-48	36
29-07-55	36
29-07-79	36
29-07-86	36
29-07-93	36
29-08-10	36
29-08-27	36
29-08-34	36
29-08-38	26
29-08-39	33
29-08-45	28
29-12-50	28
29-12-80	32
29-12-97	32
29-13-07	32
29-13-21	32
29-13-52	32
29-13-76	32
29-13-83	34
29-13-90	34
29-14-00	34
29-14-17	34
29-14-24	34
29-14-31	34
29-14-48	34
29-14-55	34
29-14-62	34
29-14-93	37
29-15-03	37
29-15-10	37
29-15-27	37
29-15-34	37
29-15-41	37
29-15-58	37
29-15-65	37
29-15-72	37
29-15-89	37
29-15-96	37
29-16-06	37
29-16-13	37
29-16-20	37
29-16-37	37
29-17-17	26
29-17-19	33
29-17-19	160
29-17-27	348
29-17-27	425
29-17-59	33
29-17-60	424
29-17-66	26
29-17-67	24
29-17-71	424
29-17-87	122
29-22-68	28
29-22-70	425
29-25-88	145
29-26-43	182
29-26-43	225
29-27-72	33
29-27-75	28
29-27-84	193
29-28-70	271
29-29-97	342
29-30-46	192
29-30-90	24
29-31-03	122
29-32-33	70
29-32-33	71
29-36-81	33
29-36-83	424
29-36-85	28
29-38-99	28
29-39-65	24
29-39-89	24
29-39-96	24
29-40-05	24
29-40-12	24
29-40-29	24
29-40-36	24
29-40-43	24
29-40-50	24
29-40-67	24
29-40-74	24
29-40-81	24
29-40-98	24
29-41-39	24
29-41-46	24
29-41-53	24
29-41-60	24
29-42-56	424
29-42-63	424
29-42-94	424
29-43-04	145
29-43-04	424
29-44-83	197
29-45-24	398
29-46-27	440
29-47-20	60
29-48-30	428
29-48-47	428
29-49-47	33
29-49-52	28
29-49-54	425
29-52-00	932
29-53-34	424
29-53-45	157
29-53-45	158
29-53-45	159
29-53-50	24
29-53-51	463
29-53-53	26
29-53-62	425
29-53-63	160
29-53-63	161
29-53-64	122
29-55-09	432
29-60-27	424
29-60-58	345
29-60-65	424
29-61-13	27
29-61-13	28
29-61-13	33
29-61-20	27
29-61-20	28
29-61-20	33
29-61-37	27
29-61-44	27
29-61-44	28
29-61-44	33
29-61-51	28
29-61-51	33
29-61-68	27
29-61-68	28
29-61-68	33
29-61-75	27
29-61-75	28
29-61-75	33
29-61-82	27
29-61-82	28
29-61-82	33
29-61-99	27
29-61-99	28
29-61-99	33
29-62-09	27
29-62-09	28
29-62-09	33
29-62-16	28
29-62-23	28
29-62-47	28
29-62-54	28
29-62-61	28
29-62-85	28
29-62-92	28
29-63-02	28
29-63-19	28
29-63-26	28
29-63-33	28
29-63-57	28
29-63-64	28
29-64-12	28
29-64-29	28
29-64-36	28
29-64-43	28
29-64-50	28
29-64-67	28
29-64-74	28
29-64-81	28
29-64-98	28
29-65-08	28
29-65-15	28
29-65-46	30
29-65-77	145
29-70-21	33
29-70-26	27
29-70-28	425
29-76-56	33
29-76-60	432
29-94-76	33
29-94-77	122
29-94-83	425
29-98-33	33
29-98-34	26
30-17-57	325
30-45-55	819
30-49-48	326
30-53-46	326
30-53-60	306
30-53-61	349
30-53-62	256
30-53-64	258
31-02-88	858
31-34-72	268
31-34-82	519
31-34-86	60
31-35-25	193
31-35-28	475
31-35-30	853
31-35-31	249
31-35-37	288
31-35-42	337
31-35-43	299
31-35-49	312
31-35-51	408
31-35-52	284
31-35-54	538
31-35-55	537
31-35-58	894
31-35-58	910
31-35-59	900
31-35-61	242
31-35-62	521
31-35-64	257
31-35-71	535
31-35-72	358
31-35-73	378
31-35-75	397
31-35-76	943
31-35-78	944
31-35-87	506
31-35-88	848
31-35-93	353
31-35-95	498
31-35-96	470
31-35-97	939
31-35-99	931
31-36-00	487
31-36-02	933
33-36-29	884
33-60-11	829
33-64-82	822
33-64-99	821
33-68-53	829
33-79-24	858
34-53-45	266
34-91-76	938
34-91-77	364
34-91-78	316
34-91-81	415
34-91-82	532
34-94-75	266
35-04-51	876
35-09-87	817
35-20-07	94
35-20-08	1015
35-20-20	338
35-20-21	355
35-20-22	310
35-20-23	362

CATALOGUE NO. INDEX

CAT NO.	PAGE
35-20-27	537
35-20-29	902
35-20-31	521
35-20-37	535
35-20-38	433
35-20-41	943
35-20-42	944
35-20-50	359
35-24-80	821
35-28-68	818
35-30-86	310
35-38-98	839
35-76-56	310
35-81-16	839
36-17-17	266
36-17-19	257
36-20-47	424
36-30-86	331
36-49-47	303
36-53-50	839
36-53-67	839
36-70-21	266
36-72-48	854
36-76-19	858
36-98-52	315
36-98-61	66
36-99-02	536
36-99-33	535
36-99-34	527
36-99-36	199
36-99-38	483
36-99-40	211
36-99-48	280
36-99-56	816
36-99-56	870
36-99-63	182
36-99-63	267
36-99-67	453
36-99-69	265
36-99-70	254
36-99-71	140
36-99-71	142
36-99-71	305
36-99-72	845
36-99-76	303
36-99-77	336
36-99-79	308
36-99-80	262
36-99-84	412
36-99-86	413
36-99-90	235
36-99-93	219
36-99-94	506
36-99-95	312
36-99-97	340
36-99-98	261
36-99-99	261
37-00-00	538
37-00-01	933
37-00-02	537
37-00-03	521
37-00-04	899
37-00-05	453
37-00-07	901
37-00-10	521
37-00-12	297
37-00-14	407
37-00-23	252
37-00-24	484
37-00-26	535
37-00-27	315
37-00-29	398
37-00-30	358
37-00-34	435
37-00-35	899
37-00-35	931
37-00-35	933
37-00-36	943
37-00-37	944
37-00-38	480
37-00-50	342
37-00-54	527
37-00-55	506
37-00-57	932
37-00-59	365
37-00-61	414
37-00-62	475
37-00-63	457
37-00-65	496
37-00-67	401
37-00-68	483
37-00-69	939
37-00-70	476
37-00-71	932
37-00-72	930
37-00-73	487
37-00-74	934
37-00-78	933
37-04-39	899
37-04-39	931
37-17-17	837
37-21-61	939
37-49-56	933
37-59-24	865
37-64-28	829
37-75-06	817
37-75-20	817
37-79-22	891
37-79-39	891
37-79-46	891
37-79-53	891
37-96-52	874
38-17-57	266
38-17-58	331
38-27-83	505
38-27-87	71
38-28-12	399
38-28-16	473
38-28-18	458
38-28-18	950
38-28-33	419
38-28-66	536
38-28-72	505
38-28-78	492
38-28-91	194
38-28-91	197
38-28-94	898
38-29-04	889
38-29-04	935
38-29-08	535
38-29-09	527
38-29-09	1051
38-29-19	231
38-29-25	280
38-29-34	825
38-29-34	938
38-29-35	938
38-29-37	816
38-29-43	267
38-29-44	826
38-29-47	350
38-29-49	276
38-29-50	453
38-29-54	265
38-29-56	254
38-29-58	322
38-29-63	844
38-29-65	308
38-29-66	262
38-29-70	412
38-29-71	413
38-29-75	235
38-29-77	354
38-29-81	216
38-29-82	340
38-29-83	479
38-29-87	261
38-29-88	883
38-29-88	930
38-29-89	538
38-29-90	538
38-29-92	836
38-29-92	938
38-29-95	362
38-30-00	297
38-30-01	818
38-30-01	845
38-30-13	484
38-30-15	307
38-30-16	535
38-30-17	315
38-30-20	398
38-30-21	358
38-30-25	434
38-30-27	900
38-30-27	931
38-30-27	933
38-30-28	943
38-30-29	944
38-30-30	480
38-30-46	817
38-30-46	851
38-30-54	430
38-30-55	342
38-30-56	370
38-30-58	414
38-30-59	474
38-30-60	316
38-30-61	446
38-30-86	266
38-30-87	842
38-35-58	506
38-35-59	864
38-35-61	250
38-36-80	342
38-47-88	884
38-47-95	884
38-48-50	824
38-48-67	815
38-48-67	824
38-48-74	824
38-48-81	815
38-48-81	824
38-48-98	824
38-49-08	815
38-49-08	824
38-53-45	819
38-53-45	842
38-69-99	837
38-80-21	894
38-80-21	910
38-80-38	894
38-80-38	910
38-80-52	894
38-80-52	910
38-80-69	894
38-80-69	910
38-80-76	894
38-80-76	910
38-93-12	834
39-21-89	834
39-60-72	268
39-60-79	519
39-61-02	195
39-61-06	356
39-61-07	495
39-61-13	337
39-61-14	355
39-61-20	538
39-61-21	291
39-61-22	537
39-61-23	458
39-61-24	943
39-61-25	900
39-61-26	242
39-61-27	521
39-61-35	500
39-61-37	535
39-61-39	380
39-61-40	255
39-61-41	379
39-61-41	384
39-61-42	943
39-61-43	944
39-61-51	528
39-61-53	347
39-61-54	384
39-61-55	497
39-61-56	482
39-61-58	930
39-61-59	931
39-61-60	487
40-00-64	957
40-01-50	957
40-04-04	981
40-08-06	1019
40-17-59	332
40-17-61	336
40-30-86	336
40-30-89	341
40-42-42	392
40-42-42	981
40-43-83	981
40-49-47	337
40-53-48	333
40-58-56	486
40-63-43	981
40-71-08	486
40-71-15	486
40-71-22	486
40-71-53	948
40-75-00	957
40-78-10	359
40-78-11	322
40-78-12	206
40-78-13	902
40-78-14	520
40-78-25	533
40-78-26	939
40-78-27	487
40-81-45	486
40-81-76	468
40-81-76	469
40-81-76	472
40-81-76	473
40-81-76	1023
40-81-83	1023
40-82-17	1023
40-82-24	1023
40-82-31	1023
40-82-48	1023
40-82-55	1023
40-83-27	1027
40-83-34	1027
40-83-41	1027
40-83-72	1027
40-84-06	1027
40-87-38	899
40-87-38	931
40-90-89	1019
40-91-06	1019
40-91-44	1019
40-91-51	1019
40-91-75	1019
40-91-82	1019
40-91-99	1019
40-92-09	1021
40-92-16	1021
40-92-23	1021
40-92-30	1021
40-92-54	1021
40-92-61	1021
40-92-85	1020
40-92-92	1020
40-93-26	1020
40-93-33	1020
40-93-40	1020
40-93-64	1020
40-93-71	1020
40-93-88	1020
40-93-95	1020
40-94-05	1020
40-94-12	1020
40-94-43	486
40-94-50	486
40-94-75	339
40-97-59	1021
40-98-07	981
40-98-38	1023
41-04-32	957
41-04-56	948
41-04-63	948
41-06-52	433
41-07-48	981
41-07-79	390
41-07-79	981
41-08-39	440
41-12-46	440
41-12-47	440
41-13-52	970
41-13-69	970
41-13-76	969
41-13-83	382
41-13-83	970
41-13-90	383
41-13-90	969
41-14-00	969
41-14-17	970
41-14-24	970
41-14-31	970
41-14-48	969
41-16-13	981
41-17-59	439
41-17-62	145
41-17-62	322
41-17-78	970
41-17-92	970
41-18-02	970
41-18-19	970
41-18-26	970
41-19-29	969
41-19-36	970
41-19-43	392
41-19-43	981
41-19-50	981
41-19-67	981
41-22-64	440
41-24-85	1020
41-25-64	957
41-25-71	379
41-25-71	957
41-25-95	957
41-26-05	957
41-26-12	957
41-26-29	957
41-26-43	970
41-26-67	969
41-26-74	969
41-26-81	969
41-27-72	440
41-27-73	440
41-28-32	390
41-28-32	981
41-28-87	957
41-30-51	196
41-30-86	439
41-30-87	439
41-32-19	335
41-32-57	71
41-34-53	423
41-35-87	958
41-35-87	1011
41-36-81	440
41-38-95	440
41-38-96	440
41-39-72	711
41-39-89	423
41-41-58	880
41-46-36	506
41-46-37	864
41-46-38	279
41-47-99	179
41-48-23	196
41-48-54	193
41-49-48	440
41-49-64	195
41-53-10	884
41-53-41	834
41-53-44	439
41-53-45	439
41-57-43	418
41-57-43	423
41-60-96	196
41-62-61	721
41-67-35	398
41-68-07	398
41-72-91	397
41-81-35	593
41-81-35	671
41-87-02	193
41-87-33	882
41-88-05	981
41-93-16	690
41-94-75	439
41-97-87	894
41-98-33	440
42-04-22	834
42-17-59	336
42-21-21	898
42-30-86	333
42-35-90	899
42-35-90	931
42-60-48	194
42-62-51	193
42-62-68	465
42-62-99	1012
42-70-23	96
42-94-75	369
42-99-04	819
42-99-11	819

CAT NO.	PAGE
43-00-27	453
43-17-57	1027
43-17-60	914
43-17-61	871
43-17-63	871
43-20-02	906
43-30-88	816
43-30-88	871
43-38-91	906
43-48-65	860
43-49-13	837
43-50-53	898
43-53-44	816
43-53-44	871
43-55-65	817
43-57-92	860
43-58-02	898
43-58-18	906
43-59-05	894
43-59-05	910
43-63-20	834
43-67-44	906
43-67-91	834
43-68-94	831
43-69-04	831
43-69-11	831
43-69-28	831
43-69-35	831
43-69-66	819
43-69-73	819
43-69-80	819
43-69-97	819
43-70-37	831
43-70-44	832
43-70-51	832
43-70-68	832
43-70-75	832
43-70-82	832
43-70-99	832
43-71-09	830
43-71-16	830
43-71-23	830
43-71-30	830
43-71-47	830
43-71-78	830
43-71-92	830
43-72-02	830
43-72-26	833
43-72-33	833
43-72-40	833
43-72-57	833
43-72-64	852
43-75-83	906
43-77-83	944
43-81-91	1020
43-82-49	871
43-82-56	871
43-82-63	871
43-82-68	906
43-84-90	932
43-86-64	906
43-90-11	730
43-90-11	908
43-90-73	939
43-91-38	921
43-93-41	927
43-93-58	927
43-94-13	834
43-95-92	913
43-96-26	914
43-96-33	914
43-96-40	914
43-96-57	914
43-96-64	914
43-96-71	914
43-96-88	914
43-97-05	914
43-97-50	834
43-98-08	916
43-98-15	916
43-98-22	916
43-98-39	916
43-98-46	916
43-98-53	916
43-98-60	916
43-98-77	916
43-98-84	916
43-98-91	916
43-99-01	916
43-99-18	919
43-99-25	919
43-99-32	919
43-99-49	919
43-99-70	919
44-04-95	707
44-06-77	658
44-12-43	668
44-12-50	668
44-12-67	668
44-17-18	647
44-17-19	720
44-17-20	697
44-17-58	717
44-22-42	694
44-22-63	719
44-22-66	702
44-22-73	702
44-22-97	670
44-23-07	671
44-23-14	671
44-26-75	727
44-26-82	727
44-27-47	743
44-28-64	570
44-28-71	553
44-28-71	570
44-28-88	570
44-28-95	570
44-29-05	570
44-29-12	570
44-29-29	570
44-29-36	570
44-29-43	570
44-29-50	570
44-29-67	553
44-29-67	570
44-29-74	570
44-29-81	570
44-29-98	570
44-30-07	570
44-30-14	611
44-30-21	611
44-30-38	611
44-30-52	611
44-30-69	97
44-30-76	97
44-30-83	97
44-30-86	717
44-30-87	641
44-30-87	642
44-30-87	643
44-30-87	644
44-30-87	645
44-31-93	759
44-34-54	685
44-34-61	685
44-34-61	686
44-34-78	685
44-34-78	686
44-34-85	685
44-34-85	686
44-35-19	655
44-36-29	582
44-37-22	582
44-37-46	582
44-37-60	582
44-37-77	582
44-37-84	582
44-40-06	593
44-43-43	711
44-43-50	711
44-43-67	711
44-44-15	260
44-44-53	688
44-46-66	641
44-46-73	641
44-46-80	641
44-47-07	703
44-47-14	718
44-47-14	726
44-47-14	727
44-47-14	730
44-47-14	736
44-47-14	737
44-47-14	743
44-47-14	747
44-47-14	748
44-47-14	759
44-47-21	747
44-49-47	719
44-53-28	766
44-53-35	663
44-53-42	663
44-53-44	717
44-53-59	663
44-54-21	646
44-56-65	712
44-57-51	774
44-57-68	774
44-57-75	774
44-57-82	774
44-57-99	774
44-58-09	774
44-58-16	774
44-58-23	774
44-58-30	774
44-60-59	566
44-60-66	566
44-60-73	566
44-63-03	559
44-64-68	553
44-64-75	553
44-64-82	553
44-65-09	553
44-66-26	559
44-68-22	673
44-68-39	781
44-70-21	720
44-71-37	546
44-71-44	548
44-71-51	548
44-71-68	548
44-71-75	548
44-71-82	548
44-72-30	569
44-72-47	569
44-72-54	569
44-72-61	569
44-72-78	569
44-72-85	569
44-72-92	569
44-73-19	906
44-73-26	906
44-73-33	906
44-73-40	906
44-73-57	906
44-73-64	906
44-73-71	906
44-73-88	906
44-73-95	906
44-74-05	906
44-74-12	906
44-74-29	906
44-74-36	906
44-74-43	906
44-74-50	906
44-74-67	906
44-74-74	906
44-74-81	906
44-74-98	906
44-75-08	906
44-75-15	906
44-75-22	906
44-75-39	906
44-75-46	906
44-75-53	906
44-75-60	906
44-75-77	906
44-75-84	906
44-75-91	906
44-76-01	906
44-76-49	708
44-76-63	739
44-76-70	652
44-78-90	736
44-79-24	721
44-79-31	721
44-79-48	612
44-79-55	612
44-79-62	612
44-79-79	612
44-79-86	612
44-79-93	612
44-80-02	612
44-80-19	612
44-80-33	613
44-80-40	613
44-80-57	613
44-80-71	569
44-80-88	569
44-81-12	582
44-82-53	736
44-82-77	925
44-82-91	773
44-87-41	689
44-87-58	689
44-88-06	674
44-88-13	674
44-88-20	674
44-88-37	673
44-88-68	686
44-89-09	670
44-89-16	670
44-89-30	689
44-89-30	690
44-89-47	689
44-89-47	690
44-89-61	689
44-89-61	690
44-90-63	760
44-93-17	740
44-94-75	717
44-95-68	680
44-95-75	680
44-95-82	680
44-95-99	680
44-96-09	612
44-96-16	612
44-96-23	613
44-97-02	634
44-98-67	671
44-98-81	671
45-00-38	753
45-00-69	747
45-00-76	747
45-00-83	110
45-00-83	749
45-01-62	689
45-01-62	690
45-01-79	593
45-01-79	689
45-01-79	690
45-02-27	773
45-03-37	692
45-03-44	692
45-04-92	608
45-05-02	611
45-05-19	611
45-05-26	609
45-05-33	610
45-05-40	611
45-06-05	740
45-08-87	741
45-08-94	741
45-09-59	551
45-10-68	729
45-10-75	727
45-11-54	672
45-11-78	583
45-13-12	721
45-13-14	477
45-13-36	757
45-13-50	728
45-13-67	728
45-13-74	728
45-14-39	757
45-15-32	653
45-16-42	719
45-16-59	719
45-17-38	607
45-17-45	607
45-17-52	607
45-17-58	740
45-17-69	607
45-17-76	607
45-17-83	607
45-18-17	742
45-18-24	695
45-18-48	713
45-18-86	743
45-19-10	97
45-21-53	635
45-21-60	635
45-21-77	635
45-21-84	635
45-22-25	581
45-24-45	431
45-24-90	438
45-25-00	438
45-26-58	439
45-26-65	439
45-26-72	439
45-26-89	439
45-26-96	439
45-27-06	439
45-27-13	439
45-27-20	439
45-27-37	439
45-27-72	702
45-30-86	647
45-30-87	666
45-30-88	740
45-31-14	477
45-31-38	478
45-33-34	514
45-34-51	490
45-34-68	490
45-35-61	503
45-35-78	503
45-36-33	500
45-36-80	702
45-37-12	1041
45-37-12	1042
45-38-95	701
45-40-11	905
45-44-43	377
45-45-46	523
45-45-60	523
45-49-47	676
45-51-97	905
45-53-44	740
45-54-04	29
45-54-11	29
45-54-28	29
45-54-35	29
45-58-75	1023
45-59-16	450
45-59-78	449
45-70-31	503
45-72-51	491
45-72-68	491
45-72-75	489
45-72-75	491
45-78-53	905
45-78-99	195
45-79-83	1031
45-79-83	1048
45-80-16	449
45-82-74	29
45-83-22	431
45-83-39	431
45-85-35	424
45-85-59	424
45-86-98	905
45-87-79	503
45-87-87	503
45-87-93	503
45-88-10	461
45-88-27	461
45-88-34	503
45-88-41	503
45-88-58	503
45-88-72	503
45-89-68	653
45-89-75	653
45-91-70	485
45-91-71	905
45-91-87	485
45-91-94	485
45-92-04	485
45-92-11	528
45-92-28	532
45-92-35	532
45-92-42	909
45-92-59	909
45-92-66	909
45-92-73	909
45-92-80	909
45-92-97	909
45-93-15	905
45-94-48	502
45-94-62	502
45-95-41	506
45-95-58	506
45-95-65	506

CATALOGUE NO. INDEX

CAT NO.	PAGE
45-96-06	513
45-96-20	513
45-97-54	427
45-97-61	427
45-97-96	453
45-97-96	1015
45-98-06	335
45-98-07	355
45-98-09	206
45-98-10	902
45-98-11	520
45-98-16	944
45-98-34	702
45-98-40	1028
46-00-28	561
46-04-44	678
46-04-51	678
46-05-09	581
46-05-16	580
46-05-23	580
46-05-30	580
46-05-47	761
46-06-33	768
46-06-40	685
46-06-40	686
46-06-57	685
46-06-57	686
46-08-43	1022
46-08-43	1050
46-08-77	621
46-08-84	739
46-08-84	741
46-08-91	723
46-09-01	690
46-09-18	729
46-09-25	729
46-09-32	729
46-09-49	727
46-09-87	706
46-09-94	706
46-12-09	642
46-12-16	642
46-12-23	642
46-12-30	631
46-12-50	1022
46-12-50	1050
46-12-54	632
46-12-61	643
46-12-78	643
46-13-26	781
46-13-33	583
46-13-40	583
46-13-57	583
46-13-64	583
46-13-71	583
46-13-88	583
46-13-95	583
46-14-05	583
46-14-12	583
46-14-29	583
46-14-36	583
46-14-43	583
46-14-67	260
46-15-08	622
46-15-22	622
46-15-39	622
46-15-46	622
46-15-53	622
46-15-60	622
46-15-91	625
46-16-01	625
46-16-18	625
46-16-25	625
46-16-63	625
46-16-70	625
46-17-19	1020
46-17-27	1022
46-17-27	1050
46-17-30	738
46-17-61	1049
46-17-64	1019
46-17-65	1021
46-17-75	969
46-17-78	690
46-17-79	1027
46-17-81	702
46-18-14	669
46-18-21	669
46-18-52	688
46-18-69	688
46-18-76	687
46-22-60	566
46-22-68	1022
46-22-68	1050
46-22-77	752
46-22-91	589
46-23-18	736
46-23-49	745
46-23-87	691
46-24-04	691
46-24-35	691
46-24-42	691
46-25-38	758
46-25-90	551
46-26-00	779
46-26-62	663
46-27-65	725
46-27-72	725
46-27-77	1022
46-27-77	1050
46-27-89	725
46-27-96	725
46-28-06	596
46-28-13	594
46-28-20	594
46-28-44	594
46-28-68	594
46-28-75	594
46-28-99	717
46-28-99	718
46-29-09	718
46-29-16	718
46-29-23	590
46-29-30	590
46-29-47	590
46-29-54	741
46-29-61	566
46-29-78	566
46-29-92	566
46-30-01	567
46-30-18	566
46-30-25	566
46-30-87	697
46-30-89	1020
46-30-91	1019
46-30-94	697
46-30-95	1022
46-30-95	1050
46-30-96	969
46-30-97	970
46-30-99	1027
46-31-01	981
46-31-02	957
46-31-04	697
46-31-05	1027
46-31-12	781
46-31-73	697
46-31-80	697
46-32-14	697
46-32-21	697
46-32-38	596
46-32-45	596
46-32-52	596
46-33-17	620
46-33-55	620
46-33-79	620
46-33-86	621
46-34-03	621
46-34-27	621
46-34-41	621
46-34-58	621
46-34-65	621
46-34-72	621
46-34-89	631
46-34-96	631
46-36-84	1022
46-36-84	1050
46-38-74	608
46-38-81	609
46-38-98	611
46-39-00	1022
46-39-00	1050
46-39-08	611
46-39-15	611
46-39-22	610
46-39-39	485
46-39-60	734
46-39-77	734
46-39-84	719
46-39-91	719
46-40-00	611
46-40-17	611
46-40-24	611
46-40-31	608
46-40-48	609
46-40-55	610
46-40-62	719
46-41-96	736
46-49-51	1022
46-49-51	1050
46-50-23	680
46-50-61	681
46-50-78	681
46-53-48	1019
46-53-51	1022
46-53-51	1050
46-54-49	483
46-59-82	532
46-60-39	494
46-60-60	494
46-60-84	493
46-60-91	493
46-61-01	493
46-61-70	494
46-61-94	494
46-62-42	714
46-62-59	702
46-64-00	734
46-64-17	734
46-64-48	483
46-64-55	483
46-64-62	483
46-64-79	483
46-64-86	483
46-64-93	733
46-65-03	733
46-65-10	733
46-65-27	733
46-65-34	732
46-65-41	732
46-65-58	483
46-67-30	458
46-67-54	781
46-67-61	717
46-67-61	718
46-68-19	756
46-69-12	588
46-69-29	588
46-69-36	588
46-70-07	614
46-70-14	614
46-70-23	1021
46-70-29	738
46-70-76	97
46-71-00	97
46-71-17	97
46-74-09	540
46-74-23	539
46-75-40	500
46-75-57	500
46-77-84	614
46-77-91	614
46-78-18	614
46-78-25	614
46-79-04	614
46-79-35	614
46-79-59	500
46-79-73	738
46-79-80	738
46-80-37	614
46-80-44	614
46-80-82	481
46-81-23	766
46-81-92	1043
46-82-02	1043
46-85-18	499
46-85-25	499
46-85-32	499
46-85-49	499
46-86-73	869
46-87-52	939
46-87-69	939
46-89-10	528
46-89-27	939
46-89-34	939
46-89-58	939
46-89-65	939
46-90-29	527
46-91-60	921
46-91-84	921
46-91-91	922
46-92-18	922
46-92-25	922
46-92-32	922
46-92-63	890
46-92-70	922
46-92-87	922
46-93-04	922
46-93-42	602
46-93-59	603
46-93-66	604
46-93-73	605
46-93-80	606
46-94-80	1020
46-94-83	844
46-94-86	981
46-94-87	433
46-94-88	1027
46-94-90	939
46-95-00	911
46-95-17	911
46-95-24	911
46-95-31	911
46-95-48	911
46-95-55	911
47-01-11	778
47-01-28	778
47-01-35	778
47-01-42	778
47-01-59	778
47-02-45	671
47-02-52	675
47-02-69	674
47-05-37	658
47-05-44	658
47-05-51	658
47-05-68	737
47-06-47	708
47-06-54	709
47-06-61	709
47-06-78	708
47-07-33	769
47-07-40	769
47-08-39	413
47-08-41	382
47-08-42	698
47-08-45	915
47-08-67	657
47-09-08	664
47-09-15	664
47-09-39	685
47-09-77	572
47-09-91	572
47-12-47	407
47-12-48	413
47-12-49	413
47-12-50	436
47-12-53	697
47-12-54	698
47-15-19	411
47-16-38	194
47-17-17	756
47-17-19	647
47-17-23	463
47-17-28	410
47-17-29	408
47-17-31	661
47-17-33	410
47-17-34	473
47-17-37	746
47-17-58	410
47-17-60	449
47-17-61	454
47-17-71	410
47-17-73	463
47-17-74	380
47-17-78	468
47-17-79	410
47-17-80	408
47-17-81	412
47-17-84	410
47-17-85	408
47-17-88	470
47-17-92	666
47-18-73	760
47-18-80	760
47-19-69	697
47-19-76	697
47-19-83	697
47-19-90	697
47-20-09	697
47-20-30	646
47-22-63	756
47-22-65	412
47-22-66	393
47-22-68	661
47-22-69	411
47-22-74	777
47-22-81	777
47-22-98	778
47-25-66	561
47-25-73	561
47-25-97	720
47-26-07	720
47-26-14	720
47-27-72	413
47-27-75	653
47-27-77	915
47-30-87	449
47-30-88	469
47-30-94	455
47-30-97	405
47-30-99	410
47-31-00	408
47-31-03	410
47-31-04	408
47-31-05	457
47-31-06	470
47-31-07	386
47-31-08	702
47-31-10	882
47-31-46	888
47-33-76	624
47-33-83	624
47-33-90	624
47-34-00	624
47-34-48	624
47-34-48	636
47-34-68	888
47-35-89	757
47-36-80	413
47-36-86	915
47-38-96	413
47-38-97	413
47-38-99	652
47-39-01	915
47-40-11	888
47-42-58	939
47-42-96	753
47-43-06	755
47-44-47	376
47-45-71	555
47-45-88	555
47-45-95	557
47-46-29	531
47-46-29	1043
47-46-29	1054
47-46-34	882
47-46-36	556
47-46-43	396
47-46-67	556
47-46-98	531
47-46-98	1054
47-47-08	547
47-47-15	531
47-47-15	1043
47-47-15	1054
47-47-22	547
47-47-60	560
47-47-77	560
47-47-84	607
47-47-91	765
47-48-01	765
47-48-49	438
47-48-56	438
47-48-63	438
47-48-70	438
47-48-87	438
47-49-47	471
47-49-49	407

CAT NO.	PAGE
47-49-50	455
47-49-51	413
47-49-66	465
47-50-68	480
47-53-36	556
47-53-36	557
47-53-43	556
47-53-43	557
47-53-44	647
47-53-46	437
47-53-47	470
47-53-57	408
47-53-62	410
47-53-63	408
47-53-64	457
47-53-65	470
47-53-68	657
47-54-15	495
47-54-22	495
47-54-39	495
47-54-46	495
47-54-53	495
47-54-60	495
47-54-77	495
47-54-84	495
47-55-01	495
47-55-18	495
47-56-28	399
47-56-35	743
47-56-42	923
47-56-97	923
47-57-21	405
47-57-38	405
47-57-45	405
47-57-52	407
47-57-69	407
47-58-31	457
47-59-27	478
47-59-34	528
47-59-58	745
47-59-89	475
47-60-68	888
47-62-55	888
47-64-64	888
47-66-03	743
47-66-27	830
47-66-34	830
47-66-41	889
47-66-58	889
47-68-78	915
47-68-85	915
47-68-92	915
47-70-21	756
47-70-22	471
47-70-24	463
47-70-26	410
47-70-27	408
47-70-29	413
47-70-30	661
47-70-32	133
47-70-32	383
47-70-34	659
47-76-70	888
47-78-01	888
47-79-01	819
47-82-28	888
47-82-47	411
47-82-54	411
47-84-81	911
47-85-84	480
47-91-71	888
47-94-77	376
47-94-79	437
47-94-83	408
47-94-84	413
47-94-85	764
47-94-87	385
47-94-88	473
47-95-45	417
47-95-52	417
47-95-69	417
47-98-68	911
47-98-75	911
47-98-82	911
47-98-99	911
48-08-38	648
48-12-46	305
48-12-55	499
48-12-58	222
48-12-59	312
48-12-61	162
48-12-61	305
48-12-62	406
48-12-63	258
48-12-65	450
48-12-66	648
48-17-18	661
48-17-19	764
48-17-57	684
48-17-58	775
48-17-59	782
48-17-61	659
48-17-65	741
48-17-67	658
48-17-68	712
48-17-69	684
48-17-73	654
48-17-74	752
48-17-75	734
48-22-63	784
48-22-65	648
48-27-72	648
48-30-86	684
48-30-88	714
48-30-91	264
48-30-91	699
48-30-92	686
48-30-94	709
48-53-44	677
48-53-48	656
48-53-50	744
48-82-06	93
48-82-13	93
48-82-20	92
48-82-37	92
48-82-44	95
48-82-51	96
48-83-09	96
48-83-16	96
48-83-23	96
48-83-47	92
48-83-54	95
48-86-15	71
48-87-18	98
48-92-29	1027
48-92-36	1027
48-94-01	575
48-94-18	575
48-94-25	575
48-94-32	575
48-94-49	575
48-94-56	575
48-94-63	437
48-94-75	647
48-94-76	784
48-94-78	676
48-94-80	764
48-95-28	717
48-95-28	718
48-95-35	717
48-95-35	718
48-96-69	637
48-96-83	637
48-98-33	649
49-04-38	659
49-04-69	697
49-04-76	697
49-04-83	697
49-05-55	712
49-05-62	712
49-05-79	641
49-06-03	706
49-06-10	706
49-06-34	708
49-06-41	777
49-06-58	777
49-06-65	778
49-06-72	778
49-06-89	641
49-06-96	641
49-07-06	653
49-07-20	674
49-07-44	657
49-07-51	719
49-07-75	659
49-08-39	917
49-08-45	618
49-08-46	820
49-08-46	821
49-08-46	822
49-08-48	823
49-08-48	930
49-08-48	933
49-08-52	724
49-08-53	818
49-08-53	839
49-08-59	923
49-08-60	891
49-08-66	602
49-08-66	604
49-08-66	606
49-08-66	607
49-08-66	613
49-08-66	615
49-08-72	861
49-08-78	695
49-08-81	783
49-08-87	579
49-08-88	818
49-08-88	819
49-08-88	840
49-08-93	716
49-08-97	696
49-08-99	771
49-09-01	925
49-09-03	881
49-09-04	918
49-09-07	770
49-09-08	924
49-09-11	872
49-09-13	116
49-09-14	549
49-09-16	929
49-09-17	611
49-09-18	839
49-09-19	695
49-09-26	696
49-09-38	628
49-09-40	628
49-09-57	628
49-09-64	628
49-09-71	628
49-09-88	628
49-09-95	628
49-10-04	628
49-11-07	630
49-11-14	628
49-11-21	628
49-11-38	628
49-11-45	628
49-11-52	628
49-11-69	628
49-11-76	628
49-11-83	628
49-11-90	629
49-12-00	629
49-12-17	629
49-12-24	629
49-12-31	629
49-12-47	917
49-12-48	629
49-12-55	629
49-12-56	618
49-12-58	821
49-12-60	593
49-12-61	654
49-12-62	629
49-12-63	724
49-12-64	839
49-12-70	923
49-12-71	891
49-12-72	743
49-12-76	730
49-12-78	615
49-12-79	629
49-12-86	629
49-12-88	694
49-12-89	861
49-12-93	629
49-13-01	783
49-13-03	629
49-13-04	613
49-13-07	579
49-13-08	819
49-13-08	840
49-13-10	629
49-13-16	696
49-13-18	771
49-13-20	925
49-13-21	584
49-13-22	881
49-13-23	918
49-13-28	770
49-13-29	924
49-13-34	629
49-13-35	872
49-13-38	549
49-13-41	629
49-13-42	929
49-13-43	611
49-13-44	907
49-13-45	922
49-13-46	868
49-13-58	629
49-13-65	630
49-13-72	630
49-13-89	630
49-13-96	630
49-14-06	630
49-14-13	630
49-14-20	630
49-14-37	630
49-14-44	630
49-14-51	630
49-14-68	630
49-14-75	630
49-15-09	630
49-15-16	630
49-15-21	862
49-15-22	593
49-15-23	630
49-15-27	923
49-15-29	586
49-15-30	630
49-15-36	913
49-15-47	630
49-15-85	694
49-17-18	917
49-17-21	682
49-17-22	764
49-17-24	839
49-17-28	618
49-17-30	619
49-17-33	593
49-17-40	932
49-17-54	748
49-17-62	691
49-17-63	917
49-17-65	560
49-17-66	725
49-17-66	726
49-17-68	692
49-17-70	736
49-17-70	737
49-17-72	860
49-17-78	717
49-17-81	718
49-17-81	719
49-17-81	720
49-17-82	839
49-17-84	676
49-17-88	738
49-17-90	718
49-17-91	761
49-17-94	730
49-17-94	731
49-17-94	747
49-17-94	752
49-17-94	753
49-17-94	754
49-17-94	757
49-17-94	762
49-17-96	619
49-17-98	659
49-18-01	593
49-18-06	618
49-18-06	727
49-18-06	752
49-18-06	753
49-18-06	754
49-18-06	757
49-18-07	162
49-18-12	665
49-18-21	753
49-18-21	754
49-18-21	755
49-18-22	679
49-18-25	561
49-18-29	630
49-18-32	760
49-18-37	687
49-18-38	660
49-18-39	679
49-18-40	756
49-18-41	695
49-18-42	737
49-18-46	679
49-18-48	923
49-18-49	765
49-18-50	758
49-18-53	679
49-18-63	691
49-18-64	734
49-18-71	748
49-18-72	647
49-18-78	598
49-18-83	924
49-18-83	927
49-18-86	856
49-18-88	890
49-18-90	878
49-18-96	732
49-19-00	860
49-19-02	860
49-19-06	584
49-19-10	762
49-19-12	613
49-19-13	613
49-19-16	887
49-19-17	815
49-19-17	843
49-19-18	701
49-19-19	543
49-19-20	543
49-19-23	918
49-19-24	918
49-19-25	701
49-19-32	701
49-19-33	264
49-19-33	699
49-19-42	614
49-19-48	628
49-19-51	623
49-19-53	853
49-19-54	871
49-19-57	558
49-19-59	835
49-19-61	558
49-19-62	924
49-19-64	924
49-19-70	701
49-19-70	702
49-19-77	880
49-19-81	861
49-19-87	701
49-19-87	702
49-20-03	656
49-20-27	656
49-20-34	656
49-20-41	656
49-20-65	703
49-22-64	917
49-22-65	761
49-22-69	817
49-22-71	618
49-22-72	619
49-22-73	930
49-22-75	593
49-22-77	724
49-22-79	839
49-22-86	922
49-22-91	647
49-22-93	907
49-22-97	927
49-23-07	679
49-23-08	861
49-23-09	693
49-23-10	829
49-23-23	613
49-23-25	718

CATALOGUE NO. INDEX

CAT NO.	PAGE
49-23-27	835
49-23-29	579
49-23-30	819
49-23-30	840
49-23-31	655
49-23-34	684
49-23-38	716
49-23-43	857
49-23-46	771
49-23-49	609
49-23-52	584
49-23-55	546
49-23-56	918
49-23-63	575
49-23-65	924
49-23-73	872
49-23-77	817
49-23-78	895
49-23-79	549
49-23-81	632
49-23-82	587
49-23-85	558
49-23-86	929
49-23-87	611
49-23-89	907
49-23-90	881
49-23-91	920
49-23-92	868
49-25-22	453
49-25-46	453
49-26-25	493
49-26-32	493
49-26-49	493
49-26-56	494
49-27-73	379
49-27-73	384
49-27-78	618
49-27-79	618
49-27-82	593
49-27-87	857
49-27-94	615
49-28-04	863
49-28-07	396
49-28-08	716
49-28-14	937
49-28-15	918
49-28-18	926
49-28-21	937
49-28-23	816
49-28-23	872
49-28-25	116
49-28-26	549
49-28-29	837
49-30-86	739
49-30-87	707
49-30-88	409
49-30-91	560
49-30-92	692
49-30-94	736
49-30-94	737
49-30-95	409
49-31-01	717
49-31-02	839
49-31-05	376
49-31-07	761
49-31-10	618
49-31-11	619
49-31-13	815
49-31-13	843
49-31-16	593
49-31-17	593
49-31-19	162
49-31-23	665
49-31-24	696
49-31-32	630
49-31-33	760
49-31-35	687
49-31-37	696
49-31-38	660
49-31-44	713
49-31-45	765
49-31-46	593
49-31-61	647
49-31-62	748
49-31-70	742
49-31-75	722
49-31-79	681
49-31-81	493
49-31-82	674
49-31-84	923
49-31-85	644
49-31-88	643
49-31-93	694
49-31-94	693
49-32-00	773
49-32-01	858
49-32-03	827
49-32-07	761
49-32-09	918
49-32-10	696
49-32-13	860
49-32-14	698
49-32-18	777
49-32-24	936
49-32-26	721
49-32-26	723
49-32-27	824
49-32-28	613
49-32-32	552
49-32-33	557
49-32-34	835
49-32-38	575
49-32-41	579
49-32-42	579
49-32-43	840
49-32-47	673
49-32-49	870
49-32-51	752
49-32-52	745
49-32-55	654
49-32-56	655
49-32-61	785
49-32-62	786
49-32-64	765
49-32-68	716
49-32-70	856
49-32-71	562
49-32-75	841
49-32-76	879
49-32-80	844
49-32-81	744
49-32-83	862
49-32-88	602
49-32-88	604
49-32-88	606
49-32-88	607
49-32-88	613
49-32-88	616
49-32-89	819
49-32-89	829
49-32-95	819
49-32-95	829
49-32-96	890
49-34-04	837
49-34-11	837
49-34-28	837
49-34-35	837
49-34-42	818
49-34-42	837
49-34-71	921
49-34-74	586
49-34-78	913
49-35-21	527
49-35-83	697
49-36-81	917
49-36-87	618
49-36-88	618
49-36-90	593
49-36-97	921
49-37-02	602
49-37-02	604
49-37-02	607
49-37-02	613
49-37-02	615
49-37-07	926
49-37-09	562
49-37-12	579
49-37-14	716
49-37-16	918
49-37-19	926
49-37-22	816
49-37-22	872
49-37-24	116
49-37-25	549
49-37-28	841
49-37-29	649
49-37-30	818
49-37-30	839
49-37-58	697
49-38-13	477
49-38-20	939
49-38-37	477
49-38-44	478
49-38-51	477
49-38-75	478
49-38-95	917
49-39-00	618
49-39-01	618
49-39-04	593
49-39-11	921
49-39-12	880
49-39-17	615
49-39-28	783
49-39-32	547
49-39-34	579
49-39-36	716
49-39-43	925
49-39-44	881
49-39-45	918
49-39-49	924
49-39-53	741
49-39-54	1031
49-39-54	1048
49-39-55	816
49-39-55	872
49-39-56	116
49-39-57	549
49-39-59	929
49-39-60	611
49-39-62	648
49-39-63	839
49-40-12	922
49-40-13	927
49-40-15	866
49-40-49	826
49-40-56	1031
49-40-56	1048
49-40-63	1031
49-40-63	1048
49-41-42	379
49-41-73	381
49-41-80	385
49-41-97	385
49-43-24	817
49-44-03	782
49-44-96	745
49-46-85	742
49-47-40	485
49-47-64	485
49-47-88	485
49-47-95	485
49-48-12	485
49-48-67	637
49-48-74	637
49-49-15	637
49-49-22	637
49-49-39	631
49-49-48	917
49-49-49	761
49-49-57	618
49-49-58	619
49-49-59	820
49-49-59	930
49-49-62	593
49-49-63	818
49-49-63	839
49-49-73	730
49-49-73	908
49-49-85	679
49-49-86	861
49-49-87	815
49-49-87	829
49-49-98	784
49-50-01	613
49-50-04	579
49-50-09	716
49-50-13	857
49-50-14	696
49-50-16	771
49-50-18	815
49-50-20	611
49-50-21	925
49-50-22	551
49-50-22	584
49-50-23	918
49-50-25	547
49-50-26	918
49-50-32	924
49-50-35	895
49-50-36	872
49-50-40	549
49-50-43	558
49-50-44	929
49-50-45	611
49-50-46	648
49-50-47	907
49-50-50	922
49-50-51	868
49-50-62	710
49-50-79	710
49-50-86	710
49-50-93	491
49-51-03	491
49-51-41	491
49-51-98	921
49-51-99	927
49-52-01	660
49-52-03	913
49-52-20	893
49-52-37	893
49-52-44	893
49-52-51	892
49-52-75	892
49-53-30	601
49-53-44	707
49-53-46	691
49-53-47	601
49-53-49	560
49-53-50	682
49-53-51	736
49-53-51	737
49-53-54	601
49-53-55	917
49-53-60	718
49-53-61	601
49-53-63	818
49-53-63	839
49-53-67	721
49-53-71	618
49-53-72	619
49-53-73	619
49-53-74	619
49-53-75	815
49-53-76	932
49-53-78	601
49-53-81	593
49-53-82	593
49-53-85	601
49-53-88	665
49-53-92	601
49-53-94	846
49-53-99	755
49-54-04	660
49-54-06	731
49-54-12	647
49-54-24	748
49-54-29	615
49-54-30	598
49-54-31	771
49-54-36	652
49-54-42	930
49-54-43	681
49-54-48	923
49-54-54	694
49-54-55	693
49-54-60	773
49-54-66	761
49-54-67	918
49-54-68	696
49-54-69	698
49-54-71	657
49-54-73	918
49-54-75	784
49-54-77	815
49-54-77	824
49-54-78	613
49-54-79	721
49-54-80	552
49-54-81	555
49-54-81	556
49-54-81	557
49-54-82	835
49-54-85	579
49-54-86	579
49-54-87	818
49-54-87	840
49-54-89	654
49-54-90	674
49-54-91	852
49-54-93	655
49-54-94	655
49-54-98	785
49-54-99	786
49-55-04	716
49-55-07	562
49-55-10	841
49-55-16	857
49-55-18	568
49-55-20	602
49-55-20	604
49-55-20	606
49-55-20	607
49-55-20	613
49-55-20	616
49-55-21	816
49-55-21	865
49-55-22	925
49-55-24	829
49-55-25	837
49-55-31	860
49-55-33	584
49-55-37	613
49-55-38	596
49-55-40	843
49-55-42	721
49-55-43	819
49-55-44	543
49-55-46	918
49-55-47	918
49-55-52	936
49-55-53	264
49-55-53	699
49-55-64	623
49-55-65	853
49-55-68	558
49-55-70	924
49-55-71	927
49-55-74	819
49-55-75	841
49-55-87	936
49-55-90	835
49-55-95	895
49-55-96	116
49-55-97	613
49-55-98	625
49-55-99	549
49-56-02	657
49-56-03	636
49-56-04	891
49-56-05	587
49-56-06	843
49-56-07	837
49-56-11	852
49-56-13	548
49-56-14	855
49-56-16	837
49-56-17	611
49-56-18	596
49-56-19	649
49-56-20	860
49-56-21	818
49-56-23	764
49-56-24	920
49-56-25	730
49-56-26	867
49-56-77	770
49-56-84	770
49-56-91	770
49-57-01	770
49-57-32	770
49-60-30	696
49-60-68	927
49-60-69	660
49-60-71	866
49-62-05	458
49-62-56	593
49-62-57	730
49-62-57	908
49-62-60	923
49-62-63	586

CAT NO.	PAGE
49-62-65	873
49-62-70	913
49-64-67	618
49-64-73	615
49-64-76	923
49-64-78	585
49-64-79	918
49-70-22	917
49-70-25	682
49-70-27	839
49-70-28	846
49-70-29	658
49-70-31	618
49-70-32	619
49-70-35	593
49-70-38	665
49-70-39	858
49-70-52	907
49-70-53	647
49-70-54	748
49-70-57	598
49-70-58	771
49-70-70	679
49-70-71	694
49-70-72	861
49-70-73	693
49-70-76	773
49-70-81	761
49-70-82	918
49-70-85	723
49-70-90	613
49-70-92	835
49-70-96	579
49-70-98	856
49-71-00	655
49-71-03	684
49-71-09	716
49-71-12	583
49-71-14	857
49-71-18	568
49-71-19	608
49-71-26	613
49-71-29	546
49-71-30	918
49-71-37	817
49-71-37	835
49-71-38	924
49-71-47	872
49-71-49	817
49-71-51	888
49-71-52	549
49-71-54	632
49-71-55	587
49-71-56	661
49-71-58	558
49-71-60	611
49-71-61	744
49-71-62	907
49-71-63	920
49-71-64	867
49-76-61	619
49-76-62	932
49-76-63	593
49-76-66	615
49-76-69	923
49-76-73	932
49-76-75	674
49-76-80	584
49-76-81	585
49-76-82	918
49-76-85	130
49-76-87	927
49-76-92	116
49-76-96	913
49-78-04	932
49-78-05	593
49-78-08	755
49-78-09	923
49-78-10	585
49-78-17	913
49-78-53	927
49-78-54	660
49-82-31	932
49-82-36	923
49-82-39	585
49-82-45	913
49-86-64	927
49-86-98	927
49-86-99	660
49-91-71	593
49-91-74	921
49-91-75	927
49-91-79	913
49-93-14	927
49-94-75	706
49-94-77	917
49-94-80	682
49-94-81	737
49-94-85	818
49-94-85	839
49-94-90	619
49-94-91	843
49-94-94	593
49-94-94	738
49-94-99	665
49-95-03	629
49-95-04	630
49-95-06	731
49-95-13	647
49-95-14	602
49-95-14	604
49-95-14	606
49-95-14	607
49-95-14	613
49-95-14	614
49-95-21	748
49-95-24	598
49-95-25	771
49-95-30	652
49-95-33	828
49-95-33	930
49-95-40	676
49-95-41	694
49-95-42	861
49-95-43	693
49-95-47	773
49-95-50	761
49-95-51	918
49-95-56	817
49-95-59	613
49-95-60	723
49-95-61	817
49-95-61	835
49-95-62	862
49-95-64	579
49-95-66	840
49-95-69	655
49-95-70	654
49-95-72	660
49-95-75	785
49-95-76	786
49-95-79	716
49-95-81	562
49-95-84	841
49-95-85	857
49-95-86	696
49-95-88	744
49-95-89	878
49-95-92	616
49-95-94	925
49-95-96	838
49-95-97	890
49-96-01	860
49-96-02	584
49-96-04	739
49-96-04	740
49-96-04	741
49-96-05	613
49-96-06	919
49-96-08	543
49-96-10	918
49-96-16	866
49-96-20	623
49-96-23	835
49-96-30	861
49-96-34	872
49-96-38	817
49-96-40	895
49-96-41	549
49-96-42	549
49-96-45	657
49-96-46	636
49-96-47	891
49-96-48	587
49-96-49	661
49-96-50	895
49-96-53	548
49-96-54	855
49-96-55	611
49-96-56	744
49-96-57	860
49-96-58	818
49-96-59	920
49-96-60	867
49-98-34	917
49-98-38	619
49-98-39	619
49-98-41	593
49-98-49	615
49-98-55	562
49-98-57	579
49-98-59	716
49-98-60	584
49-98-61	918
49-98-63	926
49-98-65	835
49-98-67	116
50-01-60	1034
50-01-77	1034
50-01-91	1034
50-02-01	1034
50-02-18	1034
50-03-11	1034
50-03-59	1034
50-04-07	1034
50-04-14	1034
50-04-21	1034
50-05-17	1034
50-06-58	1033
50-06-65	1033
50-08-40	368
50-08-41	359
50-15-19	368
50-15-92	1028
50-16-02	1028
50-16-19	1028
50-17-64	354
50-17-65	368
50-17-66	756
50-19-70	1033
50-19-94	1033
50-20-10	1032
50-20-27	1032
50-20-34	1032
50-20-41	1032
50-20-58	1032
50-20-65	1032
50-20-89	1028
50-21-06	1028
50-21-06	1030
50-21-20	1029
50-21-37	1029
50-21-44	1029
50-21-51	1029
50-23-57	1029
50-23-71	1028
50-23-95	1028
50-23-95	1030
50-27-35	1028
50-27-35	1030
50-27-42	1028
50-27-42	1030
50-27-66	1028
50-27-66	1030
50-27-80	1029
50-27-80	1030
50-27-97	1029
50-27-97	1030
50-28-07	1029
50-28-07	1030
50-30-19	1033
50-30-26	1033
50-30-87	366
50-30-90	364
50-30-91	756
50-30-93	368
50-31-74	1032
50-31-81	1032
50-31-98	1032
50-32-08	1033
50-32-15	1033
50-32-22	1033
50-33-25	1028
50-33-25	1030
50-33-25	1039
50-33-25	1040
50-33-25	1043
50-33-32	1030
50-33-32	1043
50-36-80	360
50-49-48	368
50-53-53	368
50-78-01	368
50-82-28	368
50-98-33	368
51-00-02	981
51-00-19	981
51-36-81	738
51-40-15	939
51-40-16	364
51-40-19	415
51-64-65	738
51-69-66	196
52-00-92	167
52-08-38	836
52-08-39	903
52-12-48	821
52-12-49	826
52-12-50	903
52-15-24	873
52-17-17	883
52-17-19	904
52-17-66	822
52-17-68	828
52-17-70	894
52-17-70	910
52-17-71	823
52-17-73	847
52-17-76	846
52-17-77	887
52-19-73	424
52-20-60	914
52-20-66	912
52-20-67	912
52-22-63	820
52-22-64	826
52-27-73	836
52-27-74	903
52-30-90	828
52-30-91	823
52-30-93	904
52-31-72	237
52-32-80	914
52-34-72	912
52-36-81	826
52-36-82	903
52-37-17	913
52-37-19	912
52-37-41	913
52-38-95	412
52-38-98	903
52-49-47	823
52-49-50	903
52-50-22	913
52-50-24	912
52-53-44	826
52-53-45	904
52-53-53	822
52-53-54	826
52-53-55	943
52-64-64	823
52-64-65	943
52-64-90	913
52-65-07	913
52-70-21	820
52-70-22	883
52-70-23	904
52-71-08	912
52-76-56	821
52-76-57	944
52-76-70	943
52-77-02	913
52-77-04	873
52-77-07	912
52-77-44	913
52-78-19	873
52-82-37	873
52-94-75	826
52-94-79	528
52-95-06	482
52-95-10	482
52-95-18	244
52-95-18	255
52-95-21	71
52-95-21	225
52-95-26	291
52-95-34	478
52-95-45	314
52-95-69	423
52-95-70	379
52-95-72	735
52-95-76	98
52-95-78	237
52-95-88	411
52-95-90	458
52-95-90	462
52-95-90	950
52-96-33	418
52-96-41	450
52-96-50	377
52-96-76	904
52-96-96	536
52-97-11	478
52-97-17	492
52-97-22	163
52-97-31	71
52-97-43	1016
52-97-46	174
52-97-77	113
52-97-93	889
52-97-93	935
52-98-00	834
52-98-07	199
52-98-09	195
52-98-14	531
52-98-18	519
52-98-22	243
52-98-27	239
52-98-74	894
52-98-74	910
52-98-75	859
52-98-79	911
52-98-81	236
52-98-87	268
52-98-94	826
52-99-02	280
52-99-05	290
52-99-08	243
52-99-11	481
52-99-20	334
52-99-22	353
52-99-29	274
52-99-30	254
52-99-31	834
52-99-36	502
52-99-37	819
52-99-39	904
52-99-39	933
52-99-44	338
52-99-55	262
52-99-67	286
52-99-72	124
52-99-85	232
52-99-87	360
52-99-96	819
53-00-00	904
53-00-01	903
53-00-02	937
53-00-05	354
53-00-07	506
53-00-08	847
53-00-10	216
53-00-11	532
53-00-15	479
53-00-18	942
53-00-18	943
53-00-19	261
53-00-21	538
53-00-23	538
53-00-25	938
53-00-28	901
53-00-30	823
53-00-38	834
53-00-51	500
53-00-55	236
53-00-62	483
53-00-63	325
53-00-64	485
53-00-65	484
53-00-66	836
53-00-67	249
53-00-68	456

CATALOGUE NO. INDEX

CAT NO.	PAGE
53-00-69	345
53-00-70	365
53-00-75	391
53-00-76	469
53-00-78	337
53-00-79	381
53-00-81	1071
53-00-83	434
53-00-84	287
53-00-85	846
53-00-87	415
53-00-89	943
53-00-90	303
53-00-91	480
53-00-94	900
53-00-94	931
53-00-94	933
53-00-95	475
53-01-00	302
53-01-11	533
53-01-12	388
53-01-14	429
53-01-15	133
53-01-15	383
53-01-18	500
53-01-22	330
53-01-23	930
53-01-27	454
53-01-30	474
53-01-34	429
53-01-36	488
53-01-41	458
53-01-42	342
53-01-53	382
53-01-57	885
53-01-59	379
53-01-60	370
53-01-61	414
53-01-63	474
53-01-65	256
53-01-66	380
53-01-67	943
53-17-17	287
53-17-99	363
53-27-89	249
53-64-70	327
53-76-69	71
53-76-71	292
53-76-73	66
53-76-87	103
53-77-07	536
53-77-35	535
53-77-37	199
53-77-43	235
53-77-46	281
53-77-48	920
53-77-50	938
53-77-53	943
53-77-54	519
53-77-55	249
53-77-58	350
53-77-61	244
53-77-61	253
53-77-62	254
53-77-69	529
53-77-69	1051
53-77-70	309
53-77-78	232
53-77-80	363
53-77-81	506
53-77-82	312
53-77-84	340
53-77-85	297
53-77-86	538
53-77-87	537
53-77-90	899
53-77-91	369
53-77-92	900
53-77-94	521
53-77-99	351
53-78-06	427
53-78-08	458
53-78-08	462
53-78-09	1071
53-78-11	435
53-78-12	899
53-78-12	931
53-78-12	933
53-78-13	943
53-78-14	944
53-78-15	480
53-78-16	533
53-78-29	849
53-78-43	365
53-78-44	414
53-78-45	475
53-78-49	306
53-78-51	327
53-78-52	496
53-78-55	401
53-78-57	939
53-78-58	476
53-78-59	932
53-78-60	930
53-78-61	487
53-78-63	934
53-78-70	933
53-94-98	302
54-01-51	124
54-02-54	84
54-02-54	85
54-02-54	101
54-02-61	103
54-04-43	125
54-04-50	125
54-06-94	98
54-09-62	98
54-10-95	102
54-11-05	103
54-11-05	104
54-11-12	103
54-11-12	104
54-11-81	109
54-14-04	79
54-14-11	79
54-14-28	79
54-15-14	79
54-15-45	79
54-15-83	96
54-22-63	302
55-17-18	179
55-17-21	686
55-17-57	315
55-17-60	740
55-22-65	686
55-24-31	254
55-24-48	254
55-24-55	254
55-24-62	254
55-26-68	307
55-27-61	216
55-28-57	255
55-28-71	273
55-28-88	273
55-30-88	686
55-30-89	740
55-32-03	121
55-34-23	121
55-34-54	121
55-34-78	256
55-37-08	121
55-38-95	290
55-40-75	202
55-40-82	202
55-40-99	202
55-41-54	202
55-41-61	202
55-42-57	201
55-43-05	96
55-43-29	201
55-43-36	274
55-43-98	334
55-43-98	342
55-47-14	203
55-47-21	200
55-47-21	203
55-47-38	200
55-47-38	203
55-47-76	192
55-47-90	192
55-48-55	196
55-50-05	193
55-50-12	193
55-50-81	195
55-51-22	198
55-53-44	686
55-63-27	195
55-64-20	225
55-70-22	686
55-70-23	256
55-70-34	121
55-70-41	121
55-70-58	109
55-70-58	226
55-70-65	109
55-70-65	276
55-70-96	337
55-71-06	337
55-71-56	197
55-71-75	109
55-71-75	226
55-71-82	109
55-71-82	226
55-74-50	356
55-76-32	283
55-76-49	291
55-76-56	284
55-77-11	314
55-77-28	314
55-80-19	237
55-81-74	198
55-82-08	197
55-86-24	102
55-90-70	176
55-90-87	176
55-94-65	322
55-94-77	686
55-95-44	218
55-97-57	145
55-97-88	145
55-98-74	213
57-38-98	453
57-38-98	1015
57-39-13	326
57-39-14	300
57-39-15	355
57-39-18	537
57-39-20	902
57-39-22	521
57-39-27	535
57-39-28	433
57-39-29	943
57-39-30	944
57-39-37	503
57-39-38	359
57-39-39	482
57-39-40	939
57-39-41	845
57-39-42	487
58-04-39	206
58-04-40	939
58-04-43	944
59-24-19	195
60-17-18	346
60-17-57	348
60-30-86	349
60-30-87	344
60-38-95	351
60-53-44	349
60-78-58	289
60-94-76	349
61-31-48	348
61-31-51	938
61-31-52	364
61-31-56	339
61-31-57	415
61-31-58	532
62-03-49	242
62-03-56	242
62-03-63	242
62-03-70	242
62-03-94	242
62-04-04	242
62-04-28	242
62-05-38	210
62-07-72	195
62-08-38	285
62-08-39	79
62-08-40	252
62-12-46	161
62-12-47	309
62-12-49	252
62-15-19	301
62-15-37	167
62-16-09	182
62-16-16	182
62-16-47	182
62-16-47	225
62-16-78	185
62-17-02	185
62-17-17	162
62-17-17	321
62-17-21	324
62-17-22	324
62-17-26	178
62-17-26	224
62-17-60	301
62-17-62	309
62-17-68	258
62-17-70	307
62-17-72	324
62-17-75	342
62-18-05	216
62-18-43	98
62-20-62	65
62-22-64	325
62-27-74	252
62-29-52	282
62-29-76	268
62-29-83	268
62-30-47	307
62-30-86	283
62-30-93	258
62-30-94	319
62-30-95	324
62-30-96	292
62-30-97	342
62-33-22	98
62-34-70	200
62-34-70	203
62-35-04	286
62-35-28	134
62-35-35	293
62-36-38	203
62-36-52	201
62-36-52	203
62-37-31	316
62-37-48	316
62-38-10	327
62-38-27	327
62-38-34	327
62-38-72	327
62-38-89	327
62-38-98	285
62-38-99	252
62-39-06	335
62-39-13	335
62-39-37	334
62-39-99	134
62-39-99	347
62-40-60	290
62-41-56	326
62-42-04	294
62-42-28	294
62-43-45	93
62-44-55	95
62-44-55	225
62-45-72	95
62-45-72	225
62-45-89	95
62-45-96	95
62-46-06	95
62-46-13	96
62-46-51	216
62-47-54	252
62-47-61	109
62-47-61	252
62-47-78	109
62-47-78	252
62-47-85	109
62-49-05	92
62-49-05	94
62-49-12	92
62-49-12	94
62-49-29	95
62-49-36	95
62-49-36	96
62-49-47	301
62-49-49	319
62-49-51	252
62-50-21	208
62-50-52	479
62-50-69	479
62-52-72	328
62-53-47	258
62-53-48	369
62-53-49	324
62-53-50	324
62-53-52	292
62-53-68	279
62-53-75	213
62-54-09	201
62-54-92	98
62-55-95	98
62-56-74	65
62-59-66	66
62-60-20	201
62-60-37	201
62-62-33	79
62-62-95	79
62-64-60	98
62-64-64	161
62-66-97	60
62-67-14	79
62-68-55	305
62-70-74	199
62-70-81	199
62-71-08	199
62-71-22	199
62-71-60	92
62-71-60	94
62-78-01	301
62-82-93	310
62-83-03	311
62-85-92	92
62-85-92	94
62-86-02	285
62-86-95	98
62-91-44	239
62-93-33	203
62-93-40	203
62-94-76	320
62-94-77	258
62-94-78	324
62-94-79	324
62-94-80	292
62-96-70	194
62-96-87	194
62-97-42	196
62-97-80	197
62-98-83	194
63-08-42	151
63-08-63	171
63-08-64	161
63-08-76	66
63-08-80	161
63-08-81	178
63-08-82	169
63-10-53	182
63-10-53	225
63-10-77	182
63-10-84	182
63-10-84	267
63-11-56	162
63-11-87	33
63-11-87	179
63-12-35	145
63-12-50	182
63-12-60	151
63-12-61	151
63-12-64	145
63-12-70	162
63-12-85	185
63-12-87	161
63-12-91	160
63-12-96	65
63-12-96	224
63-13-00	161
63-13-01	178
63-13-02	168
63-13-45	151
63-15-24	158
63-15-24	223
63-15-29	65
63-17-21	185
63-17-25	151
63-17-27	175
63-17-41	167
63-17-42	163
63-17-49	181

CAT NO.	PAGE
63-17-50	161
63-17-50	224
63-17-53	151
63-17-77	178
63-17-77	224
63-17-87	134
63-17-89	225
63-17-98	161
63-18-03	134
63-18-09	185
63-18-11	173
63-18-12	176
63-18-14	178
63-18-14	224
63-18-34	147
63-18-35	128
63-18-37	181
63-18-38	168
63-18-39	168
63-18-41	148
63-18-41	149
63-18-41	150
63-18-41	151
63-18-41	322
63-18-44	224
63-18-46	181
63-18-53	127
63-18-54	127
63-18-67	135
63-18-67	154
63-18-67	155
63-18-67	156
63-18-73	147
63-18-75	156
63-18-77	139
63-18-79	151
63-18-81	147
63-18-82	71
63-18-90	154
63-18-90	155
63-18-90	156
63-18-90	157
63-18-90	158
63-18-90	159
63-18-90	160
63-18-90	162
63-18-90	320
63-18-97	147
63-19-03	178
63-19-04	178
63-19-08	66
63-19-09	65
63-19-10	172
63-19-11	180
63-19-14	144
63-19-15	139
63-19-16	142
63-19-17	179
63-19-18	161
63-19-19	179
63-19-22	319
63-19-27	67
63-19-30	154
63-19-31	159
63-19-32	162
63-19-37	154
63-19-38	162
63-19-39	176
63-19-40	176
63-19-44	162
63-19-44	320
63-19-46	161
63-19-46	224
63-19-48	162
63-19-49	160
63-19-49	176
63-19-51	178
63-19-52	179
63-19-53	168
63-22-73	175
63-22-90	182
63-22-90	225
63-22-91	161
63-22-91	224
63-22-92	162
63-22-95	138
63-23-03	169
63-23-09	127
63-23-11	179
63-23-17	160
63-23-23	181
63-23-24	66
63-27-89	172
63-27-90	178
63-27-94	163
63-27-94	176
63-27-98	154
63-27-99	146
63-28-02	65
63-28-02	224
63-28-03	161
63-28-06	161
63-28-07	178
63-28-08	169
63-30-95	151
63-31-10	134
63-31-13	145
63-31-21	161
63-31-25	178
63-31-25	224
63-31-37	179
63-31-50	158
63-31-56	168
63-31-59	134
63-31-63	127
63-31-71	156
63-31-76	147
63-31-77	145
63-31-77	225
63-31-79	79
63-31-84	175
63-31-94	66
63-31-98	144
63-31-99	162
63-32-00	162
63-32-00	321
63-32-05	155
63-32-06	157
63-33-98	161
63-34-70	159
63-34-74	175
63-35-18	130
63-35-18	276
63-36-91	151
63-36-95	167
63-36-99	179
63-37-00	178
63-37-02	154
63-37-02	155
63-37-02	156
63-37-02	163
63-37-04	65
63-37-08	322
63-38-97	151
63-39-15	172
63-39-16	178
63-39-16	224
63-39-17	182
63-39-17	225
63-39-28	65
63-39-31	161
63-39-32	178
63-40-13	157
63-40-14	165
63-46-65	176
63-46-72	176
63-46-89	176
63-47-13	178
63-47-37	176
63-49-52	151
63-49-66	182
63-49-66	225
63-49-67	161
63-49-68	162
63-49-80	170
63-49-81	147
63-49-85	185
63-49-86	127
63-49-90	76
63-49-96	181
63-49-97	65
63-49-97	224
63-50-00	161
63-50-01	163
63-50-02	168
63-51-69	167
63-51-99	157
63-52-01	165
63-53-68	134
63-53-83	163
63-53-83	176
63-53-88	181
63-53-91	163
63-54-11	172
63-54-12	178
63-54-12	224
63-54-15	139
63-54-17	225
63-54-26	156
63-54-30	139
63-54-32	79
63-54-41	146
63-54-42	147
63-54-48	185
63-54-50	155
63-54-52	178
63-54-53	178
63-54-55	176
63-54-56	66
63-54-57	162
63-54-57	320
63-54-58	160
63-55-16	98
63-55-85	132
63-55-92	132
63-59-49	167
63-60-27	130
63-60-34	130
63-60-58	130
63-60-68	157
63-62-63	175
63-62-78	162
63-62-78	321
63-64-78	173
63-64-82	151
63-64-85	169
63-67-45	170
63-68-14	151
63-69-17	185
63-69-24	185
63-69-31	185
63-69-55	185
63-70-21	162
63-70-21	321
63-70-30	175
63-70-40	178
63-70-40	224
63-70-41	130
63-70-42	170
63-70-49	161
63-70-49	224
63-70-50	162
63-70-52	151
63-70-60	169
63-70-61	174
63-70-66	127
63-70-76	160
63-70-78	147
63-70-82	161
63-70-83	161
63-70-84	178
63-70-85	168
63-70-86	75
63-70-88	178
63-71-05	178
63-71-12	178
63-71-12	224
63-71-29	178
63-71-29	224
63-71-36	178
63-71-36	224
63-71-43	176
63-71-50	176
63-71-67	176
63-75-84	170
63-76-60	181
63-76-66	163
63-76-67	173
63-76-71	147
63-76-76	130
63-76-82	173
63-76-85	151
63-76-86	151
63-76-89	146
63-76-93	162
63-76-93	321
63-76-95	169
63-78-55	170
63-82-32	154
63-82-68	167
63-86-66	170
63-91-73	157
63-91-74	165
63-93-16	170
63-94-83	151
63-94-92	134
63-95-00	130
63-95-03	167
63-95-04	163
63-95-04	176
63-95-10	181
63-95-24	128
63-95-25	168
63-95-27	181
63-95-28	139
63-95-30	225
63-95-31	127
63-95-38	156
63-95-40	147
63-95-47	147
63-95-49	141
63-95-52	185
63-95-54	155
63-95-56	178
63-95-60	154
63-95-61	176
63-95-62	160
63-95-63	176
63-95-65	179
63-98-41	151
63-98-53	146
63-98-54	162
63-98-56	206
64-01-09	161
64-01-16	154
64-01-16	155
64-01-16	158
64-01-16	161
64-01-23	156
64-01-23	157
64-01-23	159
64-01-23	161
64-01-47	161
64-01-54	161
64-01-61	161
64-06-42	317
64-06-73	255
64-07-07	242
64-07-14	242
64-07-21	242
64-07-38	242
64-07-45	242
64-07-52	242
64-07-76	337
64-08-41	200
64-08-52	63
64-08-53	71
64-08-57	200
64-08-60	110
64-08-61	107
64-08-64	70
64-08-65	88
64-08-68	121
64-08-69	58
64-08-77	61
64-09-72	356
64-11-22	219
64-12-50	200
64-12-58	60
64-12-62	94
64-12-65	63
64-12-69	263
64-12-73	100
64-12-74	107
64-12-76	87
64-12-78	53
64-12-79	58
64-12-82	64
64-12-90	61
64-12-95	183
64-12-96	145
64-13-59	347
64-13-73	130
64-15-21	65
64-15-32	74
64-15-33	69
64-15-35	184
64-15-48	199
64-15-62	199
64-16-41	273
64-17-17	242
64-17-20	276
64-17-22	221
64-17-24	232
64-17-27	200
64-17-37	276
64-17-39	60
64-17-46	99
64-17-52	66
64-17-55	120
64-17-58	242
64-17-62	221
64-17-64	233
64-17-68	109
64-17-68	226
64-17-71	200
64-17-75	283
64-17-78	208
64-17-85	71
64-17-97	104
64-18-04	60
64-18-06	71
64-18-07	93
64-18-11	92
64-18-12	96
64-18-15	235
64-18-17	118
64-18-17	121
64-18-18	185
64-18-20	99
64-18-21	121
64-18-22	197
64-18-33	92
64-18-37	207
64-18-43	62
64-18-43	65
64-18-46	94
64-18-47	265
64-18-52	263
64-18-54	265
64-18-57	93
64-18-58	95
64-18-59	95
64-18-62	232
64-18-63	207
64-18-65	238
64-18-66	232
64-18-67	84
64-18-68	85
64-18-73	112
64-18-73	113
64-18-86	59
64-18-87	60
64-18-90	185
64-18-91	185
64-18-98	367
64-18-99	367
64-19-05	163
64-19-10	322
64-19-13	131
64-19-14	83
64-19-15	83
64-19-19	343
64-19-22	138
64-19-26	228
64-19-32	73
64-19-39	141
64-19-49	164
64-19-54	356
64-19-58	72
64-19-59	165
64-19-67	63
64-19-68	64
64-19-75	72
64-19-77	52
64-19-78	54
64-19-79	54
64-19-81	159
64-19-82	77
64-19-83	76

CATALOGUE NO. INDEX

CAT NO.	PAGE
64-19-84	148
64-19-89	78
64-19-90	91
64-19-91	86
64-19-94	77
64-19-96	139
64-19-97	140
64-20-00	166
64-20-01	166
64-20-28	363
64-22-31	216
64-22-62	234
64-22-64	199
64-22-66	243
64-22-68	232
64-22-70	200
64-22-80	60
64-22-85	99
64-22-90	61
64-22-90	62
64-22-90	64
64-22-90	66
64-22-92	93
64-22-97	263
64-22-99	272
64-23-02	106
64-23-06	185
64-23-08	367
64-23-09	169
64-23-19	143
64-23-21	150
64-23-29	330
64-23-30	52
64-23-31	54
64-23-32	159
64-23-33	78
64-23-34	134
64-23-35	86
64-23-36	140
64-23-38	166
64-23-40	72
64-23-42	92
64-23-43	67
64-23-44	183
64-23-45	145
64-23-46	265
64-23-48	60
64-23-58	134
64-23-96	193
64-26-88	209
64-27-43	239
64-27-83	71
64-27-84	75
64-27-85	124
64-27-87	63
64-27-92	107
64-27-94	70
64-27-95	90
64-27-96	137
64-28-00	121
64-28-01	59
64-28-03	169
64-28-06	129
64-28-07	62
64-28-10	143
64-28-11	66
64-28-11	163
64-28-17	78
64-28-18	139
64-28-19	140
64-28-21	166
64-28-23	72
64-28-24	68
64-28-25	183
64-28-39	345
64-29-01	293
64-29-49	199
64-29-56	199
64-29-63	199
64-30-87	242
64-30-92	221
64-30-94	233
64-30-98	200
64-31-01	208
64-31-04	233
64-31-13	201
64-31-18	92
64-31-20	201
64-31-23	60
64-31-25	113
64-31-32	118
64-31-33	118
64-31-33	121
64-31-34	232
64-31-38	99
64-31-39	197
64-31-41	119
64-31-46	75
64-31-47	60
64-31-49	89
64-31-50	92
64-31-58	332
64-31-61	333
64-31-61	342
64-31-63	272
64-31-67	96
64-31-70	105
64-31-74	94
64-31-78	263
64-31-79	93
64-31-81	90
64-31-85	238
64-31-87	84
64-31-92	112
64-31-92	113
64-31-92	738
64-31-94	164
64-31-97	142
64-32-00	112
64-32-00	114
64-32-04	145
64-32-04	367
64-32-15	83
64-32-21	138
64-32-31	61
64-32-37	74
64-32-48	73
64-32-49	63
64-32-52	77
64-32-55	162
64-32-55	305
64-32-61	199
64-32-63	141
64-32-64	140
64-32-65	180
64-32-71	305
64-32-74	52
64-32-75	54
64-32-76	158
64-32-81	78
64-32-84	91
64-32-86	163
64-32-88	77
64-32-89	139
64-32-90	166
64-32-92	64
64-33-40	370
64-34-29	277
64-34-76	74
64-34-77	69
64-34-78	71
64-35-91	360
64-36-01	359
64-36-86	60
64-36-89	75
64-36-90	123
64-36-98	107
64-37-00	70
64-37-01	90
64-37-05	121
64-37-06	59
64-37-08	170
64-37-12	129
64-37-13	62
64-37-15	143
64-37-17	66
64-37-22	141
64-37-24	166
64-38-92	132
64-39-14	110
64-39-14	598
64-39-15	107
64-39-17	70
64-39-18	88
64-39-22	58
64-39-24	64
64-39-30	61
64-39-32	143
64-39-34	66
64-39-40	54
64-39-42	78
64-39-43	86
64-39-44	139
64-39-45	140
64-39-46	166
64-39-47	72
64-39-48	68
64-39-49	183
64-39-86	192
64-40-14	148
64-40-15	146
64-49-48	221
64-49-49	229
64-49-52	200
64-49-58	98
64-49-61	60
64-49-68	263
64-49-69	53
64-49-72	100
64-49-73	60
64-49-76	70
64-49-77	87
64-49-79	53
64-49-80	112
64-49-80	114
64-49-81	58
64-49-84	185
64-52-01	148
64-52-02	146
64-52-03	71
64-53-44	209
64-53-45	242
64-53-49	221
64-53-51	233
64-53-56	200
64-53-81	598
64-53-84	118
64-53-84	121
64-53-89	99
64-53-93	118
64-53-93	119
64-53-93	120
64-53-93	121
64-53-97	122
64-54-01	89
64-54-02	95
64-54-08	218
64-54-13	272
64-54-17	106
64-54-18	60
64-54-19	65
64-54-20	94
64-54-23	93
64-54-24	97
64-54-25	208
64-54-27	238
64-54-28	70
64-54-29	84
64-54-30	91
64-54-33	164
64-54-36	142
64-54-37	121
64-54-38	121
64-54-43	185
64-54-45	367
64-54-51	170
64-54-52	92
64-54-54	131
64-54-55	83
64-54-57	128
64-54-60	138
64-54-66	144
64-54-68	62
64-54-79	64
64-58-19	150
64-60-68	148
64-62-54	75
64-62-55	60
64-62-58	158
64-62-63	74
64-62-64	69
64-62-65	71
64-64-77	60
64-64-79	172
64-64-84	123
64-67-45	149
64-70-22	199
64-70-24	236
64-70-28	200
64-70-30	208
64-70-37	60
64-70-43	99
64-70-45	207
64-70-48	209
64-70-49	63
64-70-49	66
64-70-50	63
64-70-51	95
64-70-54	263
64-70-57	272
64-70-60	106
64-70-64	207
64-70-65	85
64-70-66	137
64-70-68	53
64-70-72	185
64-70-74	367
64-70-76	96
64-70-86	183
64-70-88	52
64-70-89	265
64-75-84	150
64-76-78	314
64-76-78	315
64-76-84	292
64-77-11	536
64-77-13	86
64-77-21	120
64-77-28	194
64-77-28	197
64-77-37	535
64-77-39	504
64-77-41	483
64-77-43	231
64-77-51	920
64-77-56	249
64-77-59	350
64-77-64	254
64-77-65	65
64-77-65	224
64-77-74	529
64-77-74	1051
64-77-75	309
64-77-76	255
64-77-80	232
64-77-82	506
64-77-83	361
64-77-84	313
64-77-87	340
64-77-88	328
64-77-89	538
64-77-90	537
64-77-91	521
64-77-93	899
64-77-94	369
64-77-95	900
64-77-96	211
64-77-97	521
64-77-98	251
64-78-03	65
64-78-12	91
64-78-14	365
64-78-15	427
64-78-18	121
64-78-19	435
64-78-20	60
64-78-21	60
64-78-22	60
64-78-26	943
64-78-27	944
64-78-28	480
64-78-30	172
64-78-31	171
64-78-32	174
64-78-39	128
64-78-42	334
64-78-48	817
64-78-48	849
64-78-50	451
64-78-58	353
64-78-59	123
64-78-60	123
64-78-61	123
64-78-62	414
64-78-63	311
64-78-64	280
64-78-65	142
64-78-68	166
64-78-69	496
64-78-70	73
64-78-71	73
64-78-72	148
64-78-74	68
64-78-75	68
64-78-76	401
64-78-77	184
64-78-78	184
64-78-79	939
64-78-80	476
64-78-81	932
64-78-82	930
64-78-83	487
64-78-86	933
64-82-29	65
64-82-35	174
64-82-40	73
64-82-41	68
64-82-43	184
64-86-65	149
64-86-99	149
64-91-78	148
64-91-79	69
64-91-80	71
64-93-15	149
64-94-77	235
64-94-80	221
64-94-83	232
64-94-86	200
64-94-95	98
64-94-97	124
64-95-02	60
64-95-05	118
64-95-05	121
64-95-08	99
64-95-09	197
64-95-10	207
64-95-11	119
64-95-15	122
64-95-18	120
64-95-23	273
64-95-26	106
64-95-28	65
64-95-29	94
64-95-32	92
64-95-33	97
64-95-34	208
64-95-35	238
64-95-38	164
64-95-40	112
64-95-40	113
64-95-42	185
64-95-44	367
64-95-46	60
64-95-48	92
64-95-50	131
64-95-51	83
64-95-53	138
64-95-60	61
64-95-62	67
64-95-69	73
64-95-70	137
64-95-77	180
64-95-78	144
64-95-81	331
64-95-82	52
64-95-83	54
64-95-84	158
64-95-86	78
64-95-88	86
64-95-89	77
64-95-90	139
64-95-91	166
64-98-34	210
64-98-41	123
64-98-48	107
64-98-49	70
64-98-50	90
64-98-51	137
64-98-52	121
64-98-54	57

CAT NO.	PAGE
64-98-56	170
64-98-59	128
64-98-60	62
64-98-65	123
64-98-66	141
64-98-68	166
64-98-69	73
64-98-70	68
64-98-71	183
65-17-17	92
65-17-57	229
66-08-38	772
66-12-46	772
66-17-18	772
66-17-57	772
66-22-63	772
66-30-86	772
66-49-47	772
66-53-44	772
66-56-65	525
66-70-21	772
66-73-27	192
66-75-92	92
66-75-93	453
66-76-08	495
66-76-11	326
66-76-12	306
66-76-14	365
66-76-17	538
66-76-19	537
66-76-20	201
66-76-21	900
66-76-22	242
66-76-23	521
66-76-29	535
66-76-30	433
66-76-31	943
66-76-33	944
66-76-41	497
66-76-42	482
66-76-44	931
66-76-45	487
66-94-75	772
67-22-64	193
67-30-11	942
67-30-11	943
67-32-79	1010
67-32-93	726
67-38-77	145
67-40-96	447
67-49-62	325
67-52-77	323
67-57-41	442
67-62-14	94
67-62-21	94
67-62-45	97
67-62-69	93
67-62-83	93
67-62-90	93
67-63-17	95
67-63-17	225
67-63-31	95
67-63-48	95
67-65-44	96
67-65-51	96
67-67-26	981
67-67-33	981
67-67-40	981
67-67-57	981
67-69-39	71
67-70-21	193
67-72-82	418
67-72-82	423
67-73-23	179
67-74-19	92
67-78-28	151
67-80-47	981
67-80-54	981
67-81-64	981
67-81-71	981
67-82-74	95
67-82-98	445
67-83-08	101
67-89-13	970
67-89-20	970
67-90-53	1023
67-90-77	1023
67-90-84	1023
67-91-01	423
67-91-70	482
67-92-11	484
67-95-27	525
67-95-34	525
67-95-41	525
67-95-58	877
67-95-65	877
67-95-72	877
67-95-89	877
67-95-96	877
67-96-06	877
68-00-66	457
68-03-27	121
68-03-34	121
68-03-41	121
68-03-58	121
68-03-72	121
68-03-89	121
68-03-96	121
68-04-06	121
68-04-75	194
68-04-99	194
68-05-61	194
68-07-29	196
68-07-67	196
68-08-77	197
68-08-84	197
68-08-91	197
68-10-89	182
68-11-37	182
68-12-46	275
68-15-84	275
68-16-18	275
68-16-49	275
68-16-56	275
68-16-63	275
68-16-70	275
68-17-17	106
68-18-14	957
68-18-52	465
68-19-79	419
68-19-79	423
68-19-86	419
68-19-86	423
68-20-64	423
68-23-56	185
68-32-76	1031
68-32-76	1048
68-32-83	1031
68-32-83	1048
68-42-20	472
68-45-12	1055
68-48-97	270
68-50-23	120
68-50-23	124
68-50-54	124
68-50-61	103
68-50-78	103
68-52-05	381
68-53-44	106
68-53-45	334
68-54-01	439
68-54-25	439
68-54-70	465
68-54-70	472
68-54-70	999
68-55-11	405
68-55-28	405
68-55-42	405
68-55-66	405
68-56-52	981
68-58-72	513
68-58-96	520
68-59-06	520
68-59-44	424
68-59-99	241
68-60-22	485
68-60-39	485
68-60-77	239
68-61-25	528
68-61-32	504
68-61-49	527
68-61-49	1051
68-61-63	527
68-61-63	1051
68-62-35	194
68-62-97	286
68-63-52	209
68-63-69	472
68-63-90	334
68-65-41	216
68-66-44	465
68-68-57	178
68-68-57	224
68-68-71	877
68-68-88	877
68-68-95	877
68-69-36	539
68-70-21	486
68-73-68	268
68-82-57	105
68-82-64	105
68-82-71	105
68-82-88	105
68-82-95	105
68-83-05	106
68-84-53	230
68-84-60	230
68-84-77	230
68-84-84	230
68-84-91	230
68-85-18	230
68-85-32	230
68-85-49	230
68-85-56	230
68-85-70	230
68-87-38	79
68-87-69	79
68-88-17	438
68-93-35	196
68-99-40	95
68-99-64	524
68-99-71	524
69-00-18	1027
69-00-25	1027
69-00-32	970
69-00-94	482
69-01-97	957
69-02-07	957
69-04-10	1020
69-04-27	1020
69-04-34	1020
69-08-05	482
69-08-12	482
69-08-36	482
69-08-38	206
69-08-39	220
69-08-40	222
69-08-44	221
69-08-45	219
69-08-53	198
69-08-54	212
69-08-55	222
69-08-56	209
69-08-57	207
69-08-58	293
69-12-46	220
69-12-50	221
69-12-59	217
69-12-60	198
69-12-61	212
69-12-62	222
69-12-63	241
69-12-64	215
69-12-65	293
69-15-20	243
69-15-23	215
69-16-77	192
69-17-01	193
69-17-17	193
69-17-20	240
69-17-21	234
69-17-23	194
69-17-25	193
69-17-27	199
69-17-28	221
69-17-38	227
69-17-39	222
69-17-40	213
69-17-42	198
69-17-43	210
69-17-44	206
69-17-46	219
69-17-47	227
69-17-48	243
69-17-51	421
69-17-58	228
69-17-61	220
69-17-62	233
69-17-64	218
69-17-65	193
69-17-66	195
69-17-68	236
69-17-69	199
69-17-72	213
69-17-73	212
69-17-75	226
69-17-76	243
69-17-77	208
69-17-83	241
69-17-85	234
69-17-91	220
69-17-92	60
69-17-92	201
69-17-95	234
69-17-96	218
69-17-97	219
69-17-98	237
69-17-99	218
69-18-00	216
69-18-01	235
69-18-02	198
69-18-03	218
69-18-05	220
69-18-06	219
69-18-07	207
69-18-08	233
69-18-09	240
69-18-10	229
69-18-11	194
69-18-12	215
69-18-13	207
69-18-15	223
69-18-16	219
69-19-21	196
69-20-54	229
69-20-61	229
69-21-02	491
69-21-19	491
69-21-26	491
69-21-33	491
69-21-40	491
69-21-57	491
69-21-64	491
69-21-71	491
69-22-29	490
69-22-63	234
69-22-80	222
69-22-82	313
69-22-85	203
69-22-86	209
69-22-87	305
69-22-88	221
69-22-95	306
69-22-97	210
69-22-99	406
69-23-01	217
69-23-02	258
69-23-03	198
69-23-04	210
69-23-09	215
69-23-10	450
69-23-77	489
69-23-91	489
69-24-87	528
69-27-73	206
69-27-77	217
69-27-84	198
69-27-85	212
69-27-87	222
69-28-41	528
69-29-37	506
69-29-82	192
69-30-86	276
69-30-87	236
69-30-89	228
69-30-90	220
69-30-92	211
69-30-93	208
69-30-94	233
69-30-95	218
69-30-96	192
69-30-97	196
69-30-98	201
69-30-99	199
69-31-02	213
69-31-03	219
69-31-05	226
69-31-06	243
69-31-20	220
69-31-21	222
69-31-22	216
69-31-23	218
69-31-24	237
69-31-26	216
69-31-27	235
69-31-28	198
69-31-29	210
69-31-30	218
69-31-31	220
69-31-33	219
69-31-34	236
69-31-35	207
69-31-36	208
69-31-38	240
69-31-39	215
69-31-40	207
69-31-42	223
69-31-46	225
69-31-47	228
69-31-50	231
69-31-51	223
69-33-45	420
69-33-52	420
69-33-69	420
69-34-69	228
69-34-71	231
69-35-10	451
69-35-27	451
69-35-34	451
69-36-80	206
69-36-91	198
69-36-92	212
69-37-30	969
69-37-47	969
69-37-54	969
69-37-61	969
69-38-40	394
69-38-96	206
69-38-97	220
69-38-98	222
69-39-01	217
69-39-02	219
69-39-09	198
69-39-10	212
69-39-11	222
69-39-13	211
69-41-86	167
69-41-93	409
69-42-27	409
69-42-72	409
69-44-47	481
69-44-54	481
69-47-60	109
69-47-84	472
69-48-32	343
69-48-49	343
69-48-56	343
69-48-63	343
69-49-11	343
69-49-48	234
69-49-51	203
69-49-52	216
69-49-53	221
69-49-62	217
69-49-63	198
69-49-64	212
69-49-66	343
69-49-67	222
69-49-68	241
69-49-69	215
69-49-73	343
69-49-80	343
69-51-47	229
69-53-45	211
69-53-47	233
69-53-48	216
69-53-49	192
69-53-55	199
69-53-56	216
69-53-57	218
69-53-58	213
69-53-60	219
69-53-75	220
69-53-76	227
69-53-77	207

CATALOGUE NO. INDEX

CAT NO.	PAGE
69-53-82	216
69-53-83	235
69-53-84	198
69-53-85	198
69-53-86	210
69-53-87	218
69-53-88	220
69-53-89	223
69-53-90	219
69-53-91	236
69-53-92	207
69-53-93	232
69-53-94	243
69-53-95	240
69-53-96	207
69-53-97	223
69-54-91	436
69-59-96	94
69-62-18	213
69-62-25	213
69-62-54	225
69-62-55	228
69-62-58	215
69-62-59	223
69-64-68	215
69-64-70	223
69-65-48	293
69-65-55	293
69-70-21	234
69-70-24	203
69-70-25	199
69-70-26	216
69-70-27	221
69-70-39	227
69-70-40	222
69-70-41	217
69-70-44	198
69-70-45	210
69-70-46	206
69-70-48	219
69-70-49	227
69-70-50	232
69-74-06	130
69-76-26	281
69-76-59	218
69-76-75	215
69-76-76	223
69-78-05	215
69-78-06	223
69-80-34	279
69-82-32	215
69-82-33	223
69-83-64	410
69-84-05	202
69-89-17	202
69-94-76	240
69-94-77	234
69-94-79	194
69-94-81	196
69-94-82	201
69-94-83	199
69-94-84	216
69-94-86	219
69-94-96	220
69-94-98	227
69-94-99	208
69-95-00	222
69-95-02	216
69-95-03	198
69-95-05	218
69-95-06	220
69-95-08	219
69-95-09	227
69-95-10	232
69-95-11	243
69-95-38	95
69-95-45	421
69-95-52	421
69-95-69	421
69-98-33	222
69-98-36	233
69-98-41	198
69-98-42	212
69-98-43	223
69-99-54	167
70-02-45	539
70-02-52	101
70-02-69	103

CAT NO.	PAGE
70-17-57	134
70-17-57	277
70-17-60	277
70-17-61	276
70-22-63	108
70-22-63	278
70-31-01	524
70-33-07	540
70-33-52	540
70-63-97	539
70-64-14	539
70-70-21	108
70-70-21	278
70-70-21	342
70-70-22	276
70-73-72	540
70-76-33	646
70-76-40	646
70-76-57	646
70-76-71	646
70-76-88	646
70-76-95	646
70-81-75	525
70-81-82	525
70-81-99	525
70-82-09	525
70-82-16	525
70-82-23	525
70-82-30	525
70-82-47	525
70-82-54	525
70-91-12	121
70-92-15	465
70-93-70	539
71-01-56	448
71-01-87	442
71-02-04	448
71-31-39	444
71-31-77	444
71-48-22	444
71-48-39	444
71-50-89	443
71-53-02	31
71-53-02	424
71-58-90	31
71-58-90	424
71-59-17	31
71-59-17	424
71-59-48	424
71-60-40	397
71-60-95	397
71-79-53	448
71-79-60	448
71-99-99	163
72-03-42	597
72-21-99	567
72-46-47	444
72-47-64	31
72-47-64	424
72-60-92	677
72-96-04	31
72-96-04	145
72-96-04	424
72-97-45	445
73-08-82	202
73-08-99	202
73-10-32	95
73-10-56	96
73-11-97	444
73-12-83	444
73-12-90	592
73-13-00	592
73-13-17	592
73-13-79	600
73-13-86	600
73-13-93	600
73-14-03	600
73-14-10	600
73-14-27	600
73-14-34	600
73-14-58	449
73-15-37	655
73-15-51	655
73-28-28	589
73-28-59	87
73-28-59	88
73-28-59	89
73-28-59	90

CAT NO.	PAGE
73-28-59	91
73-28-59	101
73-40-92	539
73-41-70	636
73-52-58	438
73-52-89	438
73-52-96	438
73-53-13	438
73-56-36	438
73-84-06	438
74-08-65	633
74-08-72	633
74-08-89	633
74-24-38	206
74-24-40	520
74-24-44	944
74-28-70	101
74-29-04	101
74-33-98	589
74-74-80	397
74-93-85	438
75-10-12	286
75-22-17	323
75-22-55	323
75-22-79	323
75-45-14	442
75-45-21	442
75-57-33	758
75-58-22	886
75-58-24	250
75-60-79	95
75-63-61	103
75-63-92	101
75-64-02	101
75-64-66	357
75-64-75	313
75-64-76	305
75-64-77	348
75-64-78	503
75-64-79	342
75-64-82	334
75-64-83	935
75-76-38	592
75-76-83	592
75-77-24	592
75-77-55	592
75-77-62	592
75-77-79	592
75-78-04	360
75-78-08	531
75-78-11	313
75-78-15	339
75-78-16	358
75-80-08	93
75-80-15	93
75-95-76	359
75-95-78	902
75-95-79	520
75-95-82	944
76-13-01	31
76-15-76	323
76-15-83	323
76-15-90	323
76-16-00	323
76-23-48	755
76-64-85	445
76-64-92	449
76-65-19	446
76-65-26	446
76-71-78	179
76-81-60	202
76-82-25	202
76-82-32	202
76-82-49	595
76-82-56	595
76-82-63	595
77-05-50	31
77-05-50	424
77-15-11	704
77-15-28	704
77-15-35	704
77-15-42	704
77-16-90	677
77-22-59	465
77-22-59	1010
77-29-12	31
77-29-12	424
77-41-92	95

CAT NO.	PAGE
77-45-01	439
77-48-55	397
77-70-27	477
77-72-47	563
77-72-54	563
77-75-60	312
77-75-79	275
77-80-64	754
77-82-35	314
77-82-35	315
77-82-44	447
77-82-90	504
77-82-92	199
77-82-94	206
77-82-99	853
77-83-07	288
77-83-08	254
77-83-09	938
77-83-13	237
77-83-19	313
77-83-21	340
77-83-22	328
77-83-23	538
77-83-24	537
77-83-26	513
77-83-28	369
77-83-29	942
77-83-29	943
77-83-30	900
77-83-33	521
77-83-35	251
77-83-36	435
77-83-40	500
77-83-42	535
77-83-43	390
77-83-46	397
77-83-47	943
77-83-48	944
77-83-55	334
77-83-61	353
77-83-62	414
77-83-64	498
77-83-66	401
77-83-67	939
77-83-68	932
77-83-69	930
77-83-71	487
77-83-73	933
77-84-97	482
77-88-13	370
77-89-30	286
77-93-21	300
77-93-25	519
77-93-45	855
77-93-46	357
77-93-47	495
77-93-53	529
77-93-57	315
77-93-58	538
77-93-60	537
77-93-61	943
77-93-64	900
77-93-65	242
77-93-66	521
77-93-67	244
77-93-67	253
77-93-72	535
77-93-74	381
77-93-75	386
77-93-76	944
77-93-84	850
77-93-88	316
77-93-89	497
77-93-90	482
77-93-92	930
77-93-92	933
77-93-94	931
77-93-95	487
78-12-40	269
78-12-57	269
78-20-36	202
78-38-15	669
78-38-15	671
78-48-52	93
78-55-52	281
78-57-72	93
78-63-31	951
78-63-55	1010

CAT NO.	PAGE
78-79-76	286
78-86-52	239
78-86-83	677
79-00-11	202
79-02-93	594
79-03-03	594
79-03-27	594
79-03-41	594
79-03-58	594
79-03-65	594
79-03-72	594
79-21-90	197
79-32-76	704
79-37-95	370
79-39-15	423
79-39-22	423
79-58-41	564
79-58-58	564
79-60-39	323
79-60-46	323
79-60-53	323
79-60-60	323
79-61-18	145
79-61-18	424
79-68-40	951
79-68-40	1010
79-76-05	658
79-88-79	61
79-88-79	62
79-88-79	63
79-88-79	64
79-88-79	65
79-89-72	746
80-00-73	1064
80-04-79	1041
80-04-82	1064
80-08-84	1064
80-10-96	1064
80-15-46	1067
80-16-49	1041
80-16-94	1064
80-17-04	1064
80-17-11	1064
80-17-59	1041
80-19-17	1041
80-19-17	1044
80-21-29	1041
80-21-29	1044
80-22-63	253
80-23-18	1064
80-23-32	1067
80-23-63	1067
80-23-70	1067
80-26-48	1041
80-26-55	1041
80-27-74	252
80-28-75	1064
80-29-16	1064
80-29-54	1064
80-30-88	260
80-30-92	244
80-30-92	253
80-31-73	1067
80-31-80	1067
80-33-17	1064
80-33-24	1064
80-33-31	1064
80-35-20	1064
80-35-37	1067
80-38-29	1067
80-39-46	1056
80-40-62	1041
80-40-62	1044
80-40-79	1044
80-41-65	1056
80-44-26	438
80-44-26	439
80-44-33	438
80-44-33	439
80-53-44	260
80-53-48	255
80-54-87	95
80-55-04	96
80-63-76	241
80-63-83	241
80-67-47	65
80-70-21	439
80-71-62	202

CAT NO.	PAGE
80-71-79	202
80-74-54	478
80-76-43	477
80-94-75	260
80-96-58	179
81-02-45	723
81-02-52	723
81-02-83	631
81-12-46	206
81-15-25	938
81-15-26	302
81-15-27	932
81-15-28	339
81-15-30	415
81-17-17	206
81-22-63	206
81-23-39	999
81-29-44	621
81-29-51	621
81-29-68	621
81-29-75	621
81-29-82	621
81-30-15	620
81-30-22	620
81-30-39	620
81-30-46	620
81-30-53	620
81-30-60	620
81-30-86	251
81-31-87	677
81-37-23	678
81-37-30	678
81-41-64	96
81-41-65	453
81-41-65	1015
81-41-75	495
81-41-76	335
81-41-77	362
81-41-81	537
81-41-83	902
81-41-84	520
81-41-90	535
81-41-91	944
81-41-93	958
81-41-93	1011
81-42-00	462
81-42-01	939
81-42-02	845
81-42-04	487
81-46-12	447
81-46-12	967
81-48-70	659
81-49-47	206
81-53-44	251
81-53-45	251
81-58-17	31
81-58-17	269
81-58-17	424
81-64-45	1056
81-64-45	1067
81-66-03	276
81-70-21	206
81-83-95	465
81-86-63	746
81-89-24	891
81-89-62	121
81-90-95	620
81-94-75	361
81-95-76	677
82-18-18	1010
82-21-47	465
82-21-47	1010
82-27-45	438
82-27-52	438
82-27-69	438
82-29-96	472
82-29-96	958
82-29-96	1011
82-30-86	252
82-37-68	270
82-38-85	1015
82-40-28	1060
82-40-28	1061
82-41-21	397
82-41-38	397
82-80-00	274
82-82-37	484
83-01-39	666
83-01-46	666
83-02-01	768
83-17-98	710
83-31-98	633
83-32-15	722
83-32-22	722
83-32-39	722
83-32-53	707
83-35-07	875
83-35-14	875
83-50-48	678
83-52-44	760
83-54-02	754
83-63-08	465
83-63-15	465
83-91-16	1010
83-94-46	575
83-94-53	575
83-94-60	575
83-94-77	575
83-95-01	575
83-95-18	575
83-95-25	575
83-95-32	575
83-96-72	192
83-98-93	754
83-99-03	672
83-99-10	672
83-99-27	672
84-00-19	1056
84-00-19	1067
84-00-26	1057
84-00-26	1067
84-00-33	1067
84-02-91	1041
84-02-91	1044
84-04-59	1065
84-04-80	1067
84-05-52	1041
84-05-83	1041
84-05-83	1042
84-06-86	1039
84-07-10	1058
84-07-27	1058
84-07-58	1067
84-09-30	1060
84-09-30	1061
84-09-54	1055
84-09-61	1055
84-10-94	1039
84-17-19	678
84-17-26	701
84-17-40	678
84-17-57	678
84-17-58	259
84-17-59	644
84-17-64	678
84-18-29	656
84-18-36	656
84-19-84	762
84-22-51	581
84-22-68	581
84-22-75	581
84-22-82	581
84-22-99	581
84-23-09	581
84-23-16	581
84-23-23	581
84-23-30	581
84-23-47	581
84-24-40	576
84-24-95	577
84-25-05	577
84-25-81	578
84-25-98	578
84-26-08	578
84-26-15	643
84-26-22	643
84-26-39	643
84-26-46	643
84-27-87	577
84-27-94	577
84-28-35	657
84-30-86	259
84-30-87	259
84-30-88	656
84-30-92	669
84-31-02	669
84-31-19	669
84-31-26	671
84-31-33	593
84-31-33	671
84-31-40	655
84-31-57	671
84-31-64	669
84-31-64	671
84-32-05	655
84-32-36	655
84-33-15	654
84-33-84	654
84-34-25	1056
84-35-66	669
84-35-66	671
84-37-48	645
84-37-55	645
84-37-62	645
84-37-79	645
84-37-86	645
84-38-03	480
84-38-10	1041
84-38-10	1061
84-38-27	1041
84-38-27	1042
84-38-27	1061
84-47-61	1065
84-48-33	1062
84-52-27	1052
84-53-13	267
84-53-45	259
84-53-46	644
84-53-99	1053
84-54-09	1055
84-54-54	733
84-54-61	733
84-54-78	733
84-54-85	733
84-54-92	733
84-55-02	733
84-56-67	767
84-56-98	767
84-57-08	767
84-57-15	767
84-57-46	670
84-57-91	670
84-58-01	671
84-58-18	620
84-58-32	636
84-60-37	923
84-60-51	923
84-67-07	779
84-67-14	779
84-67-21	779
84-67-83	644
84-67-90	528
84-71-08	948
84-72-70	722
84-73-28	593
84-73-66	1041
84-73-66	1042
84-73-66	1061
84-77-82	1056
84-77-99	1056
84-77-99	1060
84-78-23	1057
84-78-23	1060
84-78-54	1060
84-78-54	1061
84-78-61	1060
84-82-24	463
84-82-24	996
84-82-24	1013
84-83-27	776
84-86-71	735
84-87-05	1041
84-88-46	577
84-88-77	439
84-94-67	1041
84-94-76	644
84-96-70	593
84-96-94	752
84-97-59	726
84-98-83	726
84-99-55	559
84-99-62	559
84-99-86	551
85-08-38	66
85-15-58	451
85-17-18	66
85-17-57	656
85-17-59	66
85-19-67	448
85-24-85	31
85-24-85	425
85-26-36	387
85-27-72	66
85-32-95	286
85-35-63	438
85-35-63	439
85-36-81	66
85-38-95	66
85-40-12	477
85-46-41	743
85-52-31	729
85-52-48	729
85-52-55	729
85-53-45	66
85-53-53	66
85-55-47	620
85-64-36	239
85-67-45	337
85-67-48	886
85-67-50	250
85-70-22	66
85-70-40	197
85-70-88	556
85-70-88	557
85-70-88	559
85-70-95	555
85-70-95	556
85-70-95	557
85-70-95	559
85-71-50	193
85-75-02	193
85-75-56	66
85-76-93	582
85-83-79	759
85-83-86	759
85-83-93	759
85-84-27	759
85-93-92	201
85-94-26	201
85-94-76	66
85-94-77	735
85-97-01	620
85-98-33	66
85-98-42	104
85-98-42	342
86-06-66	267
86-08-38	366
86-11-53	272
86-12-47	366
86-13-66	270
86-15-17	325
86-15-19	366
86-15-24	325
86-16-72	328
86-17-06	269
86-17-13	269
86-17-58	695
86-17-59	272
86-17-60	366
86-17-61	314
86-18-47	270
86-19-33	182
86-19-33	268
86-19-40	268
86-19-95	1064
86-27-72	366
86-29-56	196
86-30-86	272
86-30-87	366
86-31-46	366
86-32-85	1014
86-34-68	366
86-36-80	366
86-38-69	95
86-38-69	225
86-38-95	366
86-40-11	366
86-41-12	103
86-42-70	196
86-49-49	366
86-51-11	387
86-53-44	366
86-53-48	461
86-53-53	366
86-55-06	461
86-56-92	767
86-57-02	767
86-59-39	92
86-60-67	366
86-62-54	366
86-64-65	366
86-65-12	1040
86-66-22	179
86-66-39	179
86-66-91	203
86-67-01	203
86-67-25	203
86-67-32	203
86-67-44	366
86-67-49	203
86-67-56	200
86-67-56	201
86-67-56	203
86-67-63	200
86-67-63	201
86-67-63	203
86-67-70	203
86-67-87	203
86-67-94	203
86-68-04	203
86-68-11	201
86-68-11	203
86-68-28	201
86-68-28	203
86-69-69	397
86-69-83	397
86-72-36	397
86-75-42	121
86-76-56	366
86-76-70	328
86-76-71	366
86-78-01	328
86-78-02	366
86-78-53	366
86-78-58	95
86-80-60	92
86-80-60	94
86-82-29	366
86-84-93	776
86-85-03	776
86-86-64	366
86-86-73	453
86-86-92	855
86-86-93	357
86-86-94	495
86-86-96	301
86-87-04	315
86-87-05	538
86-87-06	326
86-87-07	537
86-87-08	201
86-87-10	900
86-87-11	242
86-87-12	521
86-87-18	535
86-87-19	943
86-87-20	944
86-87-21	366
86-87-29	817
86-87-29	850
86-91-71	366
86-92-41	314
86-93-14	366
86-94-16	956
86-94-75	272
86-94-76	366
86-94-78	608
86-94-85	611
86-94-92	611
86-95-02	609
86-95-19	610
86-95-26	608
86-95-33	611
86-95-40	611
86-95-57	609
86-95-64	610
86-95-71	608
86-95-88	611
86-95-95	611
86-96-05	609

CATALOGUE NO. INDEX

CAT NO.	PAGE
86-96-12	610
86-96-74	608
86-96-81	611
86-96-98	611
86-97-08	609
86-97-15	610
86-98-33	366
87-01-06	703
87-02-30	746
87-02-54	724
87-03-67	192
87-04-98	182
87-07-42	723
87-07-66	560
87-07-73	560
87-07-80	560
87-08-14	675
87-08-21	675
87-11-67	588
87-12-22	745
87-12-39	745
87-14-04	667
87-14-11	667
87-14-28	667
87-14-42	779
87-14-59	779
87-14-66	779
87-14-73	779
87-17-57	773
87-17-59	773
87-18-82	677
87-19-16	776
87-22-07	652
87-30-88	773
87-32-75	696
87-32-99	696
87-33-23	714
87-36-91	712
87-48-10	773
87-53-44	773
87-58-19	93
87-58-33	92
87-59-81	195
87-64-16	1012
87-72-02	555
87-72-02	556
87-72-02	557
87-72-02	559
87-72-19	559
87-72-26	559
87-72-88	564
87-72-95	564
87-73-12	151
87-73-67	564
87-74-15	631
87-74-60	767
87-74-84	767
87-75-25	767
87-77-69	744
87-79-27	726
87-81-60	735
87-85-24	743
87-85-31	743
87-86-34	194
87-88-09	754
87-89-19	753
87-89-26	634
87-89-33	634
87-89-40	634
87-89-57	634
87-89-95	875
87-90-04	875
87-93-41	342
87-96-71	370
87-99-94	194
88-01-03	98
88-03-78	102
88-03-78	103
88-03-92	102
88-04-02	102
88-04-26	102
88-06-08	411
88-30-88	332
88-32-41	753
88-35-64	644
88-38-70	730
88-41-61	996
88-41-61	1013
88-44-22	645
88-45-70	96
88-47-52	876
88-47-69	876
88-53-45	162
88-53-45	321
88-58-78	399
88-63-03	970
88-63-89	96
88-63-96	192
88-64-82	1010
88-76-49	282
88-79-86	99
88-82-15	271
88-82-22	271
88-85-38	121
88-86-93	957
88-88-82	576
88-89-54	1005
88-89-61	1005
88-89-78	1005
88-89-85	1005
88-94-03	566
88-94-10	566
89-06-43	658
89-13-05	588
89-13-12	588
89-13-29	588
89-13-81	669
89-13-81	671
89-16-42	695
89-18-93	672
89-19-03	672
89-21-77	732
89-21-84	732
89-22-18	669
89-22-25	669
89-26-10	768
89-26-27	768
89-26-34	768
89-39-63	652
89-39-70	652
89-44-12	561
89-44-29	714
89-45-77	723
89-45-84	723
89-45-91	735
89-47-97	563
89-48-69	602
89-48-76	603
89-48-83	604
89-48-90	605
89-49-00	606
89-49-17	602
89-49-24	603
89-49-31	604
89-49-48	605
89-49-55	606
89-49-62	606
89-49-79	606
89-49-93	606
89-50-02	606
89-51-05	179
89-52-08	479
89-52-15	775
89-52-22	775
89-52-46	775
89-52-53	775
89-52-60	775
89-52-84	775
89-53-32	66
89-55-52	71
89-56-93	595
89-57-03	595
89-57-10	595
89-63-00	653
89-64-10	79
89-64-27	79
89-65-13	110
89-65-20	110
89-66-23	614
89-66-30	614
89-66-47	614
89-66-54	614
89-69-60	98
89-71-03	279
89-72-99	378
89-73-16	379
89-73-16	380
89-73-16	397
89-74-02	451
89-74-71	351
89-78-04	334
89-78-04	342
89-80-09	203
89-80-16	203
89-80-23	203
89-80-47	203
89-80-54	203
89-80-61	203
89-80-78	203
89-94-31	957
89-94-79	577
90-37-48	195
90-44-74	490
90-51-98	970
90-52-03	244
90-52-03	255
90-52-09	292
90-52-11	519
90-52-14	79
90-52-45	193
90-52-48	853
90-52-49	356
90-52-52	347
90-52-58	337
90-52-59	308
90-52-64	330
90-52-65	538
90-52-67	537
90-52-71	900
90-52-72	242
90-52-73	521
90-52-85	535
90-52-86	358
90-52-87	378
90-52-89	397
90-52-90	943
90-52-98	506
90-52-99	817
90-52-99	848
90-53-03	347
90-53-04	497
90-53-05	468
90-53-07	930
90-53-08	931
90-53-09	487
90-54-28	536
90-57-25	196
90-58-44	523
90-65-68	505
90-65-75	525
90-68-12	525
90-68-36	525
90-68-81	525
90-71-89	512
90-74-57	500
90-74-71	500
90-75-36	500
90-75-43	533
90-77-32	532
90-77-32	1043
90-77-56	529
90-77-56	532
90-77-56	1051
90-81-19	508
90-89-44	504
90-92-66	504
90-95-03	1027
90-96-82	509
90-97-61	502
90-97-92	504
90-98-02	504
91-01-21	571
91-02-48	574
91-03-34	524
91-03-58	523
91-03-65	523
91-03-96	574
91-04-06	574
91-07-67	571
91-08-39	571
91-08-60	580
91-10-41	571
91-10-58	571
91-10-72	567
91-10-89	566
91-10-96	574
91-11-20	583
91-11-68	554
91-11-75	554
91-11-82	554
91-11-99	554
91-12-09	554
91-12-16	554
91-12-23	554
91-12-30	554
91-29-54	583
91-34-41	589
91-34-65	589
91-34-72	589
91-39-60	576
91-39-77	578
91-39-84	574
91-39-91	571
91-40-17	571
91-40-31	567
91-43-54	580
91-53-60	591
91-53-77	591
91-53-84	591
91-53-91	591
91-54-18	591
91-54-25	591
91-54-32	591
91-54-49	591
91-54-63	597
91-55-42	597
91-55-73	592
91-55-80	592
91-55-97	592
91-58-89	590
91-58-96	590
91-59-20	590
91-59-37	590
91-59-68	590
91-59-75	590
91-60-53	589
91-60-60	589
91-60-77	589
91-61-63	583
91-67-61	591
91-67-78	591
91-67-92	591
91-67-92	636
91-75-26	636
91-75-33	567
91-78-18	594
91-78-25	594
91-78-32	594
91-80-82	581
91-80-99	581
91-81-09	581
91-82-26	576
91-82-64	566
91-82-71	566
91-83-29	581
91-90-12	397
92-09-39	439
92-16-77	397
92-19-07	595
92-19-14	595
92-19-38	595
92-19-52	595
92-19-69	595
92-19-76	595
92-19-90	595
92-20-09	595
92-21-64	323
92-21-71	323
92-21-88	323
92-21-95	323
92-22-12	323
92-22-29	323
92-22-36	323
92-23-33	192
92-25-80	597
92-26-21	597
92-42-58	616
92-42-65	616
92-46-43	523
92-47-84	641
92-64-38	525
92-64-52	525
92-87-03	289
92-92-77	202
92-92-84	103
93-17-19	327
93-17-28	312
93-17-30	306
93-17-31	116
93-17-32	258
93-17-33	450
93-30-81	504
93-45-54	502
93-52-23	490
93-52-47	490
93-52-54	490
93-52-61	490
93-52-85	490
93-52-92	490
93-60-64	493
93-60-71	493
93-60-88	493
93-60-95	493
93-61-36	493
93-61-98	491
93-62-08	491
93-62-15	491
93-62-22	491
93-62-39	489
93-62-39	491
93-62-53	491
93-62-77	493
93-63-49	493
93-63-63	493
93-63-70	493
93-64-11	505
93-66-17	502
93-67-03	505
93-68-06	493
93-68-13	493
93-70-70	488
93-72-14	493
93-72-21	493
93-72-45	493
93-75-82	493
93-78-36	641
93-78-43	438
93-78-67	491
93-78-74	491
93-78-81	491
93-78-98	491
93-80-79	397
93-82-82	493
93-83-23	512
94-01-91	447
94-10-42	959
94-10-59	959
94-10-66	407
94-10-66	965
94-10-73	965
94-19-87	397
94-19-87	446
94-19-87	447
94-31-99	206
94-32-03	944
94-58-80	703
94-58-97	703
94-73-87	358
94-73-88	165
94-73-88	322
94-73-89	206
94-73-91	902
94-73-92	520
94-73-96	944
94-74-03	512
94-74-04	939
94-74-05	846
94-74-06	487
94-93-05	468
94-93-05	996
94-93-05	1013
95-00-02	573
95-00-19	573
95-00-26	573
95-00-33	573
95-00-40	573
95-00-57	573
95-00-64	573
95-00-71	573
95-00-88	573

CAT NO.	PAGE
95-00-95	573
95-01-05	573
95-01-12	573
95-01-29	572
95-01-36	572
95-01-43	572
95-01-50	572
95-01-67	572
95-01-74	572
95-01-81	572
95-01-98	572
95-02-08	580
95-02-15	580
95-02-22	582
95-02-39	582
95-02-46	602
95-02-53	602
95-02-60	602
95-02-77	602
95-02-84	603
95-02-91	603
95-03-01	603
95-03-18	603
95-03-25	604
95-03-32	604
95-03-49	604
95-03-56	604
95-03-63	605
95-03-70	605
95-03-87	605
95-03-94	605
95-06-31	592
95-06-55	494
95-06-62	494
95-07-96	494
95-09-23	493
95-14-72	597
95-14-89	597
95-15-44	423
95-16-23	567
95-16-30	567
95-18-67	191
95-18-67	632
95-19-60	31
95-19-60	425
95-19-77	31
95-19-77	425
95-19-84	31
95-19-84	425
95-19-91	31
95-19-91	425
95-20-00	31
95-20-00	425
95-20-17	31
95-20-17	425
95-20-24	31
95-20-24	425
95-20-48	31
95-20-48	425
95-24-88	576
95-24-95	576
95-25-12	576
95-25-29	578
95-25-50	578
95-25-74	577
95-25-81	577
95-27-94	594
95-29-14	397
95-34-49	580
95-34-56	580
95-34-87	566
95-34-94	567
95-35-35	591
95-35-42	191
95-35-42	632
95-35-42	637
95-35-59	636
95-44-79	571
95-47-92	572
95-52-65	642
95-52-72	642
95-53-37	643
95-55-05	525
95-81-21	597
95-81-38	591
95-81-38	602
95-81-38	604
95-81-38	606
95-81-38	607
95-81-38	613
95-81-38	614
95-81-45	591
95-81-45	614
95-96-25	749
95-96-32	707
95-96-63	748
95-99-62	577
95-99-79	577
95-99-86	577
95-99-93	577
96-00-47	641
96-00-85	31
96-00-85	424
96-06-83	96
96-08-03	108
96-08-41	110
96-12-46	99
96-12-68	864
96-22-58	267
96-22-63	99
96-23-99	99
96-24-09	99
96-24-16	99
96-24-23	99
96-24-30	99
96-24-47	99
96-24-85	99
96-25-33	99
96-30-86	139
96-30-86	140
96-30-86	141
96-30-86	145
96-30-86	322
96-40-81	31
96-41-77	1041
96-49-47	99
96-54-43	507
96-57-50	539
96-57-67	539
96-65-84	521
96-65-91	521
96-70-19	92
96-70-21	99
96-73-63	179
96-76-55	197
96-76-62	197
96-76-70	179
96-87-33	511
96-94-88	96
96-97-63	202
96-98-66	286
97-09-41	511
97-17-31	332
97-22-55	66
97-22-62	66
97-29-94	506
97-30-10	506
97-30-27	506
97-30-27	507
97-31-51	489
97-31-68	489
97-31-75	489
97-31-82	489
97-32-54	209
97-34-98	646
97-38-76	84
97-38-76	85
97-38-76	101
97-38-83	103
97-48-75	578
97-48-82	578
97-52-76	539
97-52-83	539
97-52-90	540
97-53-00	540
97-53-61	313
97-53-63	299
97-53-65	335
97-53-66	342
97-53-68	304
97-53-70	450
97-55-51	192
97-56-61	593
97-58-67	196
97-59-08	492
97-59-22	492
97-59-39	492
97-59-53	492
97-59-60	492
97-59-73	195
97-59-77	492
97-60-00	492
97-60-17	492
97-60-24	492
97-60-31	492
97-60-48	492
97-60-55	492
97-61-27	643
97-64-57	280
97-64-64	280
97-67-87	567
97-67-94	567
97-68-04	563
97-68-11	563
97-68-28	563
97-68-35	563
97-70-47	1030
97-75-11	370
97-75-42	370
97-80-08	99
97-80-15	99
97-84-31	523
97-84-48	523
97-84-55	523
97-85-03	66
97-90-69	981
98-02-92	93
98-03-02	93
98-03-26	93
98-03-33	93
98-03-40	93
98-04-05	95
98-04-12	95
98-17-57	219
98-17-59	179
98-25-06	103
98-25-13	1041
98-25-13	1042
98-28-05	505
98-31-03	519
98-31-27	519
98-31-34	519
98-31-41	519
98-31-58	519
98-31-65	519
98-33-78	178
98-34-02	494
98-34-19	494
98-34-33	494
98-34-40	494
98-34-57	494
98-34-64	493
98-38-04	511
98-41-02	517
98-46-14	397
98-48-41	539
98-49-06	208
98-54-24	192
98-54-86	517
98-54-93	517
98-55-03	517
98-55-27	517
98-56-75	197
98-76-42	996
98-76-42	1013
98-76-80	540
98-77-38	108
98-77-38	226
98-80-29	1027
98-81-08	179
98-81-15	179
98-83-28	99
98-83-80	99
98-87-75	94
98-94-44	1029
98-94-44	1030
98-96-19	1030
98-96-26	1030
98-96-40	1030
98-97-67	201
98-97-74	201
98-97-98	201
98-98-08	201
98-98-60	201
98-98-84	201
98-98-91	201
98-99-94	370
99-20-91	1030
99-25-65	1028
99-34-30	71
99-37-08	439
99-37-15	499
99-37-22	499
99-37-39	499
99-40-82	488
99-40-99	488
99-41-09	488
99-46-59	1039
99-60-04	241
99-60-59	192
99-64-06	192
99-67-74	508
99-68-08	509
99-77-42	996
99-77-42	1013
99-80-64	182
99-84-11	996
99-84-11	1013
99-84-28	996
99-84-28	1013
99-91-42	593
99-92-69	957
99-92-76	957
99-95-13	239

3Com/3M

3Com
CD-Servers. . . . 260
Ethernet CardBus. . . . 732
Ethernet Hubs. . . . 666–667, 669
Ethernet Hubs – Switchable. . . . 670
Ethernet Network Cards. . . . 655
Ethernet Switches. . . . 688–689
Fast Ethernet Hubs. . . . 668
Fast Ethernet Interface Cards. . . . 654
Fast Ethernet Network Cards. . . . 654
Fast Ethernet Switches. . . . 687, 690
Gigabit Network Cards. . . . 654
GSM Fax Modems. . . . 731
Hub Accessories. . . . 671
PC Card Adaptors. . . . 733–734
PC Card Ethernet Adaptor & Fax Modems. . . . 734
PC Card Ethernet Adaptors. . . . 732
Remote Access Solutions. . . . 768–769
Specialised Cables. . . . 593
USB Ethernet Adaptor. . . . 735

3Com U.S. Robotics
Fax Modems. . . . 757–758
ISDN Terminal Adaptors. . . . 762
PC Card Modems. . . . 730

3dfx
Graphics Cards. . . . 233

3M
Cables – Centronics & Half Pitch. . . . 575
Cables – IEEE 1284 Parallel Printer. . . . 575
Copyholders. . . . 505
Desk Clearance Accessories. . . . 503
Film – for Laser, Inkjet, Thermal Transfer, Copier 1027
Flip Frames. . . . 1027
Foot Rests. . . . 505
LCD Projectors. . . . 356–357
Mounting Frames. . . . 1027
Mouse Mats. . . . 507
Screen Filters. . . . 525
Transparency Film – Inkjet, Laser, Colour Laser. 1027
Transparency Protectors. . . . 1027
Wrist Rests. . . . 506

3M (Imation)
3½″ Diskettes. . . . 1062
3½″ Drive Cleaning Kits. . . . 1064
3½″ Formatted Diskettes. . . . 1062
3½″ Formatted for Mac Diskettes. . . . 1062
5¼″ Diskettes. . . . 1062
5¼″ Formatted Diskettes. . . . 1062
8mm Data Tapes. . . . 1055
CD-R Compact Disc – Recordable. . . . 1049
CD-RW Compact Disc – Rewritable. . . . 1046
Cleaning Tapes. . . . 1055
Compactape. . . . 1044
Data Cartridges. . . . 1064
DLT & Compactape. . . . 1041–1042
Drive Cleaning Kits. . . . 1064
LS-120 Diskettes. . . . 1044
Travan Cartridges. . . . 1056–1057

A

ABA
Data Cartridge Storage. . . . 530
Diskette Mailers. . . . 533

Accodata
CD Portable Storage & Cases. . . . 527
Copyholders. . . . 505
Diskette Mailers. . . . 533
Diskette Organiser. . . . 533
Foot Rests. . . . 505
Monitor Arms. . . . 509
Terminal Arms. . . . 508–509

Acco-Rexel
Laminators. . . . 482
Shredders. . . . 482

Accuratus
Keyboards. . . . 293

Acer
Notebook PC Accessories. . . . 79
Notebook PCs. . . . 76–77
Notebook PCs – with CD-ROM. . . . 76–77

Action
Action Services. . . . 34
Certificate of Insurance. . . . 38
Extended Warranty – Desktop PCs. . . . 35–36
Extended Warranty – Fax Machines. . . . 35–36
Extended Warranty – Notebook PCs. . . . 34–36
Extended Warranty – Printers. . . . 35–36
Hardware Maintenance. . . . 24
Hardware & Software Configuration. . . . 26
Hardware – Supported Product List. . . . 25
Notebook PC Insurance. . . . 37
Out of Warranty Repairs. . . . 39
Printer Starter Kits. . . . 375, 1024

Adaptec
RAID Adaptors. . . . 240
SCSI Adaptors. . . . 239–240
SCSI Cards. . . . 238
Utilities Software. . . . 859

Adder Technology
KVM Extender. . . . 562
KVM Switches. . . . 560–561

ADi
LCD Flat Panel Monitors. . . . 315
Monitors. . . . 314–315

Adobe
Design Software. . . . 841
Design Suite Software. . . . 838, 841
Desktop Publishing Software. . . . 838–840
Electronic Publishing Software. . . . 839
Graphics Software. . . . 837, 841
Image Editing Software. . . . 837
Internet Publishing Software. . . . 837
Licensing Software. . . . 806
Macintosh Software. . . . 819

ADS
USB Digital Video. . . . 575

AF
AF ClearJet Inkjet Cleaning Cartridge. 535
Cleaning Products of Office. 539–540
Printhead Cleaning Cartridge. 535
Agfa
Scanners. 347
Allied Telesyn
Dual-speed Hubs. 678–679
Ethernet Adaptor Cards. 656
Ethernet Hubs. 678
Ethernet Media Convertors. 701
Ethernet Switches. 694
Ethernet Transceivers. 703
Fast Ethernet Media Convertors. 702
Amacom
CD-Recorders. 253
CD-Rewriters. 253
CD-ROM Drives. 255
CD-Writers. 244
Hard Disk Drives. 226
Hard Drives – PC Card. 109
Removable Storage. 109
Re-Writers. 244
AMD
Processors. 207–208
AND
Route Navigation Software. 936
Aopen
Computer Cases. 213
Motherboards. 212
PC Cases. 213
APC
Networking Cabinets. 644
Surge Protection. 588
Uninterruptible Power Supply. 641–645
Apple
All-In-One Computers. 127
Desktop Computer Accessories. 134
Desktop PC Accessories. 130
Guide to – Apple Macintosh. 126
Inkjet Printer Supplies. 948
Laser Printer Supplies. 949
Minitower PCs – Mac. 131
Monitors. 132
Notebook Computers – Mac. 128–129
Notebook PC Accessories. 130
Original Ribbons. 949
Printer Supplies. 135
Software. 135
ATI
Graphics Cards. 234
Autodesk
CAD Software. 853–854
Avery
Business Cards. 1028
CD. 1050
Copier Labels. 1030
DVD Labels-CD Inserts. 1050
DVD Media Range. 1022
Full Face CD. 1022
Inkjet Labels. 1029–1030
Labelling Software. 858
Label Printing Software. 1029
Laser Labels. 1028
Removable Media Storage & Labels. 1043
Avro Pacific
Coupler – for Modem & Fax. 747
Fax Switches. 749
Modem Adaptors. 747–748
Power Adaptor Kits. 583, 747
Power Convertor. 749
Telephone Extension Kit. 618–619
Axis
CD-Servers. 259
Print Servers. 712
Aztech
Sound Cards. 236

B

Bay Networks
Remote Access Solutions. 781
BDM Systems
LAN System Furniture. 498
Network Racking System. 496–497
Belkin
Belkin USB Direct Connect Adaptors. 584
Belkin USB Parallel Adaptors. 584
Bitronic Data Switches. 551
Bitronics Switches. 552
Bulk Cable Reels. 596
Cable Clips. 616
Cables – Cat 5/FastCat 5 Solid Core. 596
Cables – Compact Parallel Switch. 551
Cables – FastCat 5. 612–613
Cables – Flat Panel Monitors. 568
Cables – PC to Modem. 580
Cables – Snagless UTP Cat 5. 608–611
Cables – Token Ring. 596
Cable Testers. 631
Cable Ties. 615
CD Storage. 527
Cleaning Products for Office. 535
Compact Auto Switches. 553
Compact Parallel Switch Cables. 551
Computer Tool Kits. 634–635
Convert-a-Port Serial/Parallel Adaptors Kits. 590
CPU Sharer. 559
DockStation. 548
File Transfer Cables. 569
IEEE 1284 Parallel Printer Cables. 569
IEEE 1394 Cables. 575
KVM Switches. 555–559
LAN Cable Testers. 631
LVD Cables – SCSI. 579
LVD Terminators. 579

Media Storage. 527
Monitor Sharer. 564
Notebook PC Carry Cases. 107
Surge Protection. 585–586
Tools. 637
Uninterruptible Power Supply. 587
USB BusPort Mobile. 548
USB BusStation. 543
USB Cables. 548
USB Ethernet Adaptors. 543
USB Extension Cables. 548
USB Keyboard. 287
USB Modular Hubs. 543
USB Motherboard Adaptor Cables. 548
USB Mouse. 287
USB Products. 546–547
USB Serial Adaptors. 543
UTP Ethernet Installation Products. 622, 625

Blaylock
Fire Safes. 517

Blue Disc
CD-ROM Drives. 255
RAID Systems. 263

Boca
PC Function Cards. 241

Borland
Development Tools Software. 835
Licensing Software. 807
Upgrades & Trade Ups Software. 817

Brother
Facsimile Machines – Plain Paper. 462
Fax Supplies. 1010
Inkjet Printers – Colour. 377
Inkjet Printers – Portable. 377
Inkjet Printer Supplies. 950
Laser Page Printers. 408–409
Laser Page Printers – Colour. 430
Laser Printer Accessories. 439
Laser Printer Supplies. 950–951
Multifunctional Capable Products. 461–462
Multifunctional Products. 458
Original Ribbons. 951
Third Party Printer Memory Upgrades. 438

BT
Answering Machines. 477
Business Telephone & Answering Machines. . . . 477
Corded Telephones. 478
Digital Cordless Phones. 474–475
Door Intercom. 476
Facsimile Machines – Plain Paper. 470
Fax Supplies. 1010
ISDN PCI Cards. 765
ISDN Terminal Adaptors. 765
PC Helpdesk Service. 30
Plain Paper Facsimile Machines. 469
Telephone System. 476

BXR
Continuous Labels. 1033
Labels – four across the web. 1033
Labels – one across the web. 1034
Labels – three across the web. 1034
Labels – two across the web. 1034
Laser Copier Labels. 1033
Laser Labels. 1032

Byte Brothers
Cable Lock Devices. 511
Data Access Control. 514

C

Caere
OCR Software. 847

Canon
Copier Supplies. 1014
Digital Cameras. 336
Fax Supplies. 958, 1011
Film. 957
Film Scanners. 346
Inkjet Compatibility Chart. 952
Inkjet Printer Accessories. 397
Inkjet Printers – Colour. 377–381
Inkjet Printers – Portable. 377
Inkjet Printer Supplies. 953–956
Laser Printer Supplies. 956
Multifunctional Products. 457
Paper. 957
Photocopiers. 481
Plain Paper Facsimile Machines. 472–473

Casio
Digital Cameras. 335
Label Printers. 483

Cedar
CD Duplicator. 258

Chase Research
Serial Cards – High Speed. 767

Check Point
Network Security Software. 929

Chubb
Fire Safes. 517

Cisco Systems
Dual-speed Hubs. 682
Dual-speed Switches. 692
Gigabit Switches. 693
Remote Access Solutions. 777–779
Specialised Cables. 593

Citrix
Thin-Client Server Software. 907–908
Thin-Client Software. 730

Compaq
Desktop PC Accessories. 161–163
Desktop PCs. 154–159
DLT & Compactape. 1041–1042
Fileserver Accessories. 178–179
Fileserver – Rack Mountable. 173
Fileservers. 168–171
Fileservers – Rack Mountable. 172
Handheld PCs. 122, 124

Hard Disk Drives. 224
LCD Flat Panel Monitors. 305, 321
LCD Projector Bulbs. 366
Monitors. 320–321
Notebook PC Accessories. 65–66
Notebook PCs – with CD-ROM. 61–64
Notebook PCs – with DVD-ROM. 63–64
Rack Mountable Fileservers. 174–175
Server RAM Upgrades. 176
Technical Support – Compaq. 33
Tower PCs. 154–155
Workstations. 160

Computer Associates
Backup Software. 920, 923
Licensing Software. 805
Network Utilities Software. 921
Storage Management Software. 919
Tape Backup Software. 920, 922

Computer Connections
CD-Rewriters. 252
CD-ROM Drives. 252
DVD-ROM Drives. 252

Connex
Anti-Static Wrist Straps. 191
BNC Connectors & Adaptors. 592
Cable Reels. 583
Cables – Apple Printers. 582
Cables – Bulk Reels. 597
Cables – CD-ROM Audio. 582
Cables – Centronics. 574, 576
Cables – Centronics Extension. 574
Cables – crossover Cat5 Connection. 614
Cables – Half Pitch Centronics. 577–578
Cables – IEEE 1284 Parallel Printer. 570
Cables – Internal Floppy Drive. 581
Cables – Internal IDE Drive. 581
Cables – Internal SCSI. 581
Cables – Keyboard Extension. 567
Cables – Monitor Extension. 566, 568
Cables – Parallel File Transfer. 582
Cables – PC to Modem. 580
Cables – PC to Parallel Printer. 571–572
Cables – PC to PC. 582
Cables – PC to Serial Printer. 571–572
Cables – SCSI. 576–578, 582
Cables – Serial File Transfer. 581
Cables – Telephone Extension. 621
Cables – Universal. 573
Cables – Workstation Extension Kits. 567
Cat 5 Through Couplers. 614
Computer Tool Kits. 633
Connex UTP/STP Bulk Cables. 596
Crimp Tools. 632
Fibre Optic Cabling. 594
Gender Changers. 590
IBM Cabling System. 594
Keyboard Adaptors. 567
Mains Cables. 583
Modular & D-Type Connectors. 591
Monitor Splitters. 564
Patch Panels. 625
PC Adaptors. 589
PC Switches. 554
Printer Switches. 554
RS 232 Accessories. 589
Switches – for Monitor, Keyboard & Mouse. . . . 563
Telephone Adaptors & Connectors. 620
Telephone Extension Cables/Sockets/Kits. 621
Thin Ethernet Cables. 595
Twisted Pair Ethernet Cables. 607
Universal Termination Set. 632
UTP Ethernet Cables. 600–606

Content Technologies Ltd
Security Software. 916

Corel
Database Software. 829
Educational Software – Licensing. 941
Graphics Software. 843, 852
Image Editing Software. 843
Licensing Software. 796
Macintosh Software. 819
Operating Systems Software. 895
Suite Software. 843
Upgrades & Trade Ups Software. 815

Creative Labs. Inc.
Sound Cards. 236
Video Conferencing. 325

Cristie
Tape Drives – DAT. 272
Tape Drives – DLT. 272
Tape Drives – Travan. 271, 273

Curtis
CD Archive. 528
CD Cases – Colour. 527
Desk Clearance Accessories. 503

D

DEC
Compactape. 1044

Diamond
Graphics Cards. 235

Digital
Laser Printer Supplies. 959
Original Ribbons. 959

Digital Workshop
Image Editing Software. 844

D-Link
D-Link Internet Servers. 782
Dual-speed Hubs. 676
Ethernet Hubs. 677
Ethernet Network Cards. 658
Ethernet Print Servers. 714
Ethernet Switches. 696
Ethernet Transceivers. 704
PC Card Ethernet Adaptors. 745

DPT
RAID Adaptors. 240
SCSI Adaptors. 240
Dragon Systems
Speech Recognition Software. 856
Dymo
Label Printers. 484–485

E

Eicon Technology
ISDN PC Card. 742, 759
ISDN Terminal Adaptors. 759, 766
Eizo
LCD Flat Panel Monitors. 299
Monitors. 299
Eldon
CPU Stands/Keyboard Drawers. 504
Desk Clearance Accessories. 502, 504
ELSA
3D Shutter Glasses. 232
Graphics Cards. 232
ISDN Terminal Adaptors. 764
Remote Access Solutions. 764
USB ISDN Terminal Adaptors. 764
Wireless Network. 661
Epson
Digital Cameras. 338
Digital Photo-printing solutions. 338
Dot Matrix Printers. 450
Dot Matrix Printers – 24-Pin. 446–447
Dot Matrix Printers – 9-Pin. 442–443
Film. 969
Inkjet Compatibility Chart. 960
Inkjet Printer Accessories. 397
Inkjet Printers – Colour. 382–387
Inkjet Printer Supplies. 961–964
Laser Page Printers. 406–407
Laser Page Printers – Colour. 427
Laser Printer Supplies. 965
LCD Projectors. 354–355
Media Compatibility Chart. 968
Multifunctional Products. 457
Original Ribbons. 966–967
Paper. 970
Photo Paper. 969
Scanners. 350–351
Third Party Printer Memory Upgrades. 438
Warranty – Epson. 32
Equisys
Fax Server Software. 917–918
Esker
Terminal Emulation Software. 875
Evergreen
Processor Upgrades. 209
Executive Software
Licensing Software. 807
Network Management Software. 915
Utilities Software. 861
Exponent
4mm Data Storage. 1054
CD Portable Storage & Cases. 527
CD Storage. 529
Copyholders. 505
Desk Clearance Accessories. 503–504
Foot Rests. 505
Microphones. 294
Removable Media Storage & Labels. 1043
Terminal Arms. 508–509
Wrist Rests. 506

F

Falcon
Cleaning Products for Office. 533
Dust-off Gas Cleaners. 536
Fellowes
4mm Data Storage. 1054
CD Binder Sleeves. 533
CD Portable Storage & Cases. 527
CD Storage. 528–529
Data Cartridge Storage. 530
Desk Clearance Accessories. 502
Mouse Mats. 507
Multimedia Storage. 532
Wrist Rests. 506
FileMaker
Database Software. 829
Licensing Software. 804
Macintosh Software. 819
Freecom
CD-ROM Drive – PC Card. 109
DVD-ROM Drive – PC Card. 109
Hard Drives – Upgrade Kits. 229
Fujitsu
3.5" IDE/SCSI Hard Disk Drive. 215
Plasma Display. 368
Fujitsu/Siemens
Desktop PC Accessories. 151
Desktop PCs. 148–150
Notebook PC Accessories. 79
Notebook PCs. 74
Notebook PCs – with CD-ROM. 72–74
Tower PCs. 150

G

Genisys
Mouse Pads. 507
Wrist Rests. 506
Genius
Mouse Packages. 285
Trackball Devices. 286
GigaByte
Motherboards. 210

H

Hauppauge
Digital Video Cards. 237
TV. 237
Hayes
Fax Modems. 752
GSM Modems. 743
ISDN Terminal Adaptors. 762
Hewlett-Packard
4mm Data Tapes. 1052
CD Labelling. 1031, 1048
CD-R Compact Disc – Recordable. 1048
CD-Recorders. 249
CD-Rewriters. 249, 255
CD-ROM Drives – Portable PCMCIA. 255
CD-RW Compact Disc – Rewritable. 1046
CD-Writers. 244
DDS-3 Autoloader. 269
Desktop PC Accessories. 145
Desktop PCs. 137–144
Desktop Workstation PCs. 144
Digital Cameras. 339
Digital Sender. 345
DLT & Compactape. 1041–1042
DVD-RW Drives. 257
E-Copier. 344
Ethernet Hubs. 680–681
Ethernet Print Servers. 710
Ethernet Switches. 691
Fileserver Accessories. 182
Fileservers. 180–181
Film. 981
Handheld PCs & Accessories. 123
Hard Disk Drives. 225
HP Magnetic Media Range. 1060–1061
Inkjet Compatibility Chart. 971
Inkjet Film. 981
Inkjet Paper. 981
Inkjet Printer Accessories. 397
Inkjet Printers – Colour. 388–396
Inkjet Printer Supplies. 972–975
Laser Compatibility Chart. 976
Laser Page Printer – Accessories. 423
Laser Page Printers. 416–422
Laser Page Printers – Colour. 428–429
Laser Printer Supplies. 977–979
LCD Flat Panel Monitors. 305
Media Compatibility Chart. 980
Minitower PCs. 141
Monitors. 322
Multifunctional Products. 454–456
Notebook PC Accessories. 55–56
Notebook PCs. 52–54
Notebook PCs – with CD-ROM. 52–54
Notebook PCs – with DVD-ROM. 52
On-Site Service Packs. 425
Optical Disks – MO Re-writable. 1060
Optical Disks – WORM. 1060
Paper. 981
Plotters. 398–399
Print Servers. 708–709, 711
Re-Writers. 244
Scanners. 348–349
SupportPacks. 31, 424
SupportPacks – non-HP Products. 31
Tape Drives – DAT. 268–269
Tape Drives – DLT. 267
Tape Drives – Travan. 271
Third Party Printer Memory Upgrades. 438
Token Ring Print Servers. 710
Travan Cartridges. 1056–1057
Hitachi
DVD-ROM Drives. 257
Hard Disk Drives – 2½" EIDE. 228
Hummingbird
Terminal Emulation Software. 877

I

IBM
2½" Hard Disk Drives. 227
Compactape. 1044
Desktop PCs. 146–147
Fileserver Accessories. 185
Fileservers. 183–184
Hard Disk Drives. 225
Hard Disk Drives – 3½" EIDE. 222
Hard Disk Drives – 3½" SCSI. 222
LCD Flat Panel Monitors. 305
Monitors. 319
Notebook PC Accessories. 71
Notebook PCs. 67, 69–70
Notebook PCs – with CD-ROM. 67–70
Notebook PCs – with DVD-ROM. 67, 70
Speech Recognition Software. 855
Token Ring Adaptors – PC Card. 746
Uninterruptible Power Supply. 648–649
IBM/Lexmark
Film. 983
Inkjet Printer Supplies. 982–983
Laser Printer Supplies. 984–985

Media Supplies. 983
Original Ribbons. 986
Paper. 983

Iiyama
LCD Flat Panel Monitors. 301
Monitors. 307

Imation
4mm Data Tapes. 1053
LS120 Drives. 277

InFocus
LCD Projectors. 360–361

Integral
DIMM Modules – Compatibility Chart. 204
Memory Upgrades. 200–202
Memory Upgrades – DIMM Modules. 203
Memory Upgrades – SIMMs. 202

Intel
Create & Share Camera Pack. 325
Dual-speed Ethernet Hubs. 664–665
Dual Speed Switches. 685
e-Commmerce Accelerators. 772
Ethernet CardBus. 724
Ethernet Hubs. 663
Ethernet Network Cards. 652
Ethernet Print Servers. 706–707
Ethernet Switches. 684
Fast Ethernet Hubs. 663
Fast Ethernet Modem Adaptors. 724
Fast Ethernet Switches. 684, 686
Gigabit Ethernet Adaptors. 653
Gigabit Ethernet Switches. 772
PC Card Ethernet Adaptors. 724
Processors. 206
Remote Access Solutions. 773
Storage Station. 698
Token Ring Print Servers. 707
Video Conferencing. 325

Interact
Contact Management Software. 886

Interquad
Training Courses. 27–28

Intuit
Finance Software. 891

Iomega
Clik! Drives and Disks. 108, 278
Disk Cartridges – Removable & Data Cartridges 1039–1040
Tape Drives – Removable Media. 108, 275–276, 278

J

JVC
CD-Servers. 262
DVD-Servers. 262

K

Kensington
CD Storage. 528
Cleaning Products for Office. 538
Desk Clearance Accessories. 503
Dust Covers. 537
Floppy Drive Lock. 513
Laptop Security Device. 512
Memory Lock. 513
Notebook Security Device. 512
Removable Media Storage & Labels. 1043
Screen Filters. 520–521
Security Device for Desktop PCs. 513
Wrist Rests. 506

Key Tronic
Fingerprint Recognition Scanner. 289
Keyboard & Mouse Bundles. 292
Keyboards. 292

Kingston
Data Storage Enclosures. 230
Memory Upgrades. 192–198
Processor Upgrades. 208

Kodak
CD-R Compact Disc – Recordable. 1050
Digital Camera Accessories. 342
Digital Cameras. 332–333
Digital Projectors. 365
Palm Accessories. 116

KRONE
Patch Panels. 624
Patch panels. 624
RJ-K LN Cat 5 Accessories. 624

Kyocera
Inkjet Compatibility Chart. 987
Laser Page Printers. 410–411
Laser Printer Supplies. 988
Printer Starter Kits. 1026

L

LapLink.com
Communications Software. 878

Lernout & Hauspie
Speech Recognition Software. 857
Translation Software. 857

Lexmark
Inkjet Printers – Colour. 376
Laser Page Printers. 412–413
Laser Page Printers – Colour. 431

LG Electronics
CD-Recorders. 253
CD-Rewriters. 253
DVD-ROM Drives. 253, 256
Handheld PCs. 124
LCD Flat Panel Displays. 303

LCD Flat Panel Monitors. 317
Monitors. 317

Lian-Li
Hard Drive Caddy Adaptor. 229

Logitech
Mouse & Keyboard Packages. 283
Mouse Packages. 284
Trackball Devices. 286
Video Conferencing Camera. 326

Lotus
Desktop Suites Software. 824
Educational Software – Licensing. 941
E-Mail Software. 892–893
GroupWare Software. 892–893
Personal Information Management Software. . . . 887
Spreadsheet Software. 827
Upgrades & Trade Ups Software. 815

Lotus & IBM
Licensing Software. 797–798

Lucent
Wireless Network. 660

M

Macase
Computer Cases. 213
PC Cases. 213

Macromedia
Graphic Design Software. 880
Graphics Software. 880
Image Editing Software. 880
Internet Publishing Software. 881
Licensing Software. 806
Macintosh Software. 819
Multimedia Software. 882

Madge
Token Ring Adaptors – PC Card. 746
Token Ring Switches. 697

Matrox
Graphics Cards. 231

Maxell
DVD-RAM Discs. 1045
DVD-R Discs. 1045
Travan Cartridges. 1057

Maxtor
Hard Disk Drives – 3.5" IDE. 223

Meridian
LAN System Furniture. 628–630

Micron Technology Inc.
RAM Upgrades. 198

Microsoft
Accounting Software. 889, 935
Communications Software. 887
Database Software. 828, 830, 911
Desktop Publishing Software. 836
Development Tools Software. 830–833
Development Tools Training Software. 834
Diagramming Software. 848, 850–851
Digital Speakers. 328
Educational Software. 943–944
Educational Software – Licensing. 941
E-Mail Software. 894, 910
Home, Leisure & Reference Software. 938–939
Image Editing Software. 844
Integrated Packages. 825
Internet Development Tools Software. 830
Joysticks. 279
Keyboards. 290
Licensing Software. 793–795
Macintosh Software. 819
Mapping Software. 935
Mouse Packages. 280–282
Network Diagramming Software. 849
Operating Systems Software. 898–902
Presentation Software. 826
Project Management Software. 884–885
Route Planning Software. 937
Server Software. 903–904, 911
Speakers. 328
Spreadsheet Software. 826
Student Licence Packs. 942
Suite Software. 820–823
Support & Product Subscription. 934
Training Guides. 932
Training Software. 834, 930–931, 933
Utilities Software. 898
Web Authoring Software. 883
Web Management Software. 883
Word Processing Software. 826

MicroSolutions
External CD-ROM Drives. 254
Portable CD-RW's. 254
Portable Floppy Drives. 254
Portable Hard Drives. 254

Mills
Cable Testers. 631
Static Safe Field Service Kit. 632
Tool Kits. 637

Mindscape
Typing Software. 858

Minolta
Copier Supplies. 1014–1015
Laser Page Printers – Colour. 434–435

Mitsubishi
LCD Flat Panel Displays. 303
Monitors. 316

Mitsumi
CD-Writers. 244
Re-Writers. 244

Monarch
Acoustic Hoods. 490
Desks. 491
Foot Rests. 491
LAN System Furniture. 499
Pedestal Units. 491
Printer Silencers. 490

Printer Stands. 489–491
System Furniture. 491–492
Wave Desking. 487
Workstations – Height Adjustable. 488
Workstations – Mobile. 488

MSI
Motherboards. 211

MultiTech
Ethernet PC Cards & Modems. 737
Fax Modems. 753–755
Fax Modems – USB Desktop. 755
ISDN & Analogue Modem Cards. 756
ISDN PC Card. 736
ISDN Terminal Adaptors. 760
PC Card Modems. 736
ProxyServer with ISDN. 760
Remote Access Solutions. 761
Serial Interface Cards. 761
Voice Over IP Gateways. 761

N

NEC
Fax Supplies. 1012
LCD Flat Panel Monitors. 298
Monitors. 298, 306
Projectors. 362

NETGEAR
Dual-speed Ethernet Switches. 695
Dual-speed Hubs. 674
Ethernet Adaptor & Fax Modem. 742
Ethernet Hubs. 672–673
Fast Ethernet Hubs. 675
Network Disk Drives. 698
Network Ethernet Cards. 657
Print Servers. 713

NetObjects
Internet Publishing Software. 882

Net Partners
Security Software. 916

Network Associates
Anti-Virus Software. 867–868
Desk Software. 869
Licensing Software. 803
Network Anti-Virus Software. 912
Utilities Software. 866

New Media
SCSI Adaptors. 108

Nico Mak Computing
Compression Software. 862
Zip Software. 862

Nikon
Digital Cameras. 339

Nokia
Cellular Data Card. 744

Novell
E-Mail Software. 909
GroupWare Software. 909
Licensing Software. 802
Network Operating Systems Software. 905–906

O

OCLI
Screen Filters. 519

OKI
Dot Matrix Printers – 24-Pin. 448
Dot Matrix Printers – 9-Pin. 444
Facsimile Machines. 468
Fax Supplies. 992, 1012
Inkjet Printer Supplies. 991
Laser Compatibility Chart. 989
Laser Page Printers – Colour. 427
Laser Printer Supplies. 990–991, 998
LED Page Printers. 405

Olicom
Token Ring Adaptors. 659
Token Ring Adaptors – PC Card. 746
Token Ring Switches. 697

Olivetti
Fax Supplies. 1012

Olympus
Dictation Equipment. 480
Digital Camera Accessories. 342
Digital Cameras. 334
Digital Image Printers. 334
TV Glasses. 340

On Stream
Disk Cartridges – Removable & Data Cartridges. 1040

Optimum
Network Racking System. 623

Oyster Computers
ISA/PCI Function Cards. 242

P

Palm Computing Platform
Palm Accessories. 115
Palm Handheld Organisers. 111–114

Panasonic
Dot Matrix Printers – 24-Pin. 449
Dot Matrix Printers – 9-Pin. 445
DVD-RAM Drives. 256
Facsimile Machines – Plain Paper. 468
Fax Supplies. 996, 1013
Laser Compatibility Chart. 993
Laser Printer Supplies. 994–995
Multifunctional Capable Products. 463
Optical Disks – WORM. 1060

Original Ribbons. 995
Pelikan
Inkjet Printer Supplies. 1009
Laser Printer Supplies. 1009
Persoft
Licensing Software. 804
Terminal Emulation Software. 875
Philips
Digital Speakers. 327
LCD Flat Panel Monitors. 302, 313
LCD Projectors. 353
Monitors. 312–313
Speakers. 327
Video Conferencing Camera. 326
Phoenix
4mm Data Storage. 1054
Fire Safes. 516
Piiceon
Memory Upgrades. 199
Pioneer
Plasma Display. 369
PKWare
Compression Software. 862
Zip Software. 862
Polaroid
LCD Projectors. 365
Screen Filters. 523–524
Polyspan
Audio-conferencing. 479
Portable Add-Ons
PCMCIA Hard Disk Drives. 226
PCMCIA Hard Drive Cards. 108
PCMCIA Hard Drives. 110
Power IT
Training Courses. 29
PowerQuest
Network Management Software. 915
Utilities Software. 860
Powerware Systems
Uninterruptible Power Supply. 646–647
Pressit
CD Repair Kit. 1049
Procom Technology
CD-Servers. 261
Network Attached Storage. 261
Psion
Palmtop PC Accessories. 117–120
Palmtop PCs. 117–119
Software for Psion Series 5. 121
Psion Dacom
GSM Modems. 727
GSM Upgrade Kits. 729
ISDN Upgrade Kits. 728
Network Ethernet Cards. 725
PC Card Modems. 726
Puma
Palm Accessories. 116
Purple Software
Palmtop PC Software. 121

Q

QMS
Laser Page Printers – Colour. 434–435
Laser Printer Supplies. 997, 999
QMS/Minolta
Laser Page Printers – Colour. 436
Quantum
DLT & Compactape. 1041–1042
Hard Disk Drives – 3½" EIDE. 220
Hard Drives – Internal 3½" SCSI. 221
Storage Servers. 264, 699
Tape Drives – DLT. 266
Quark
Desktop Publishing. 842
Macintosh Software. 819

R

RampNet
Network Security Firewall. 786
Remote Access Solutions. 785
Rapid Racking
Shelf Units – Chrome Plated. 495
Red Hat
Operating Systems Software. 895
Remtech
LAN System Furniture. 500–501
Ricoh
Digital Copiers. 453
Ruwido
Remote Control. 279

S

Sage
Accounting Software. 889–890
Payroll Software. 889–890
Samsonite
Notebook PC Carry Cases. 105–106
Samsung
Facsimile Machines – Plain Paper. 470
Laser Page Printers. 415
Notebook PC Accessories. 79
Notebook PCs. 78
Notebook PCs – with CD-ROM. 78
Plain Paper Facsimile Machines. 473

Samsung Electronics
Digital Camera Memory. 343
LCD Flat Panel Monitors. 304
Monitors. 304, 318
SmartMedia Cards. 343
Sanyo
Dictation Equipment. 480
Digital Cameras. 337
LCD Projectors. 358–359
Scansoft
OCR Software. 845
SCE
Desk Clearance Accessories. 502
Seagate
Hard Disk Drives – 3½" EIDE. 218
Hard Disk Drives – 3½" SCSI. 218–219
Tape Drives – Travan. 274
Seagate Software
Licensing Software. 801
Reports Writer Software. 888
Seiko Instruments Inc.
Label Printers. 486
Sentry
Fire Safes. 517
Sharp
Copier Supplies. 1015
Digital Copier & Printers. 453
Digital Internet Camara. 341
Facsimile Machines – Plain Paper. 471
Fax Supplies. 999
Laser Printer Supplies. 999
LCD Projectors. 363
Notebook PCs. 75
Notebook PCs – with CD-ROM. 75
Plain Paper Facsimile Machines. 472
Shiva
Remote Access Solutions. 774–776
Specialised Cables. 593
Terminal Servers. 776
Siemens
LCD Flat Panel Monitors. 305
Monitors. 322
Silicon Graphics
LCD Flat Panel Monitors. 297
Silver Suede
LCD Projectors. 370
Socket
PCMCIA Serial Adaptor Card. 110
SoftQuad
Internet Publishing Software. 879
Softwair
Route Planning Software. 936
SONIC
Network Security Firewall. 784
Sony
3½" Formatted Diskettes. 1065
4mm Data Tapes. 1052
8mm Data Tapes. 1055
AIT Drives. 265
Alkaline Batteries. 1065
CD-R Compact Disc – Recordable. 1047
CD-Recorders. 251
CD-Rewriters. 251
CD-RW Compact Disc – Rewritable. 1046
Cleaning Tapes. 1055
Data Cartridges. 1067
Digital Camera Accessories. 342
Digital Cameras. 330
Digital Video Cameras. 331
DLT & Compactape. 1041–1042
DVD-ROM Drives. 256–257
LCD Projectors. 363–364
Lithium Batteries. 1065
Monitors. 308–309
Notebook PC Accessories. 60
Notebook PCs – with CD-ROM. 57–59
Notebook PCs – with DVD-ROM. 58–59
Optical Disks – MO Re-writable. 1058
Optical Disks – WORM. 1060
Plasma Display. 369
Speakers. 327
Tape Drives – DAT. 270
Travan Cartridges. 1056–1057
Sophos
Anti-Virus Software. 914
Symantec
Anti-Virus Software. 913
Communications Software. 871–872, 874
Fax Software. 871
Internet Security Software. 873
Licensing Software. 799–800
Macintosh Software. 819
Network Access Drive. 783
Remote Computing Software. 872
Terminal Emulation Software. 874
Upgrades & Trade Ups Software. 816
Utilities Software. 863–865, 870

T

Tally
Dot Matrix Printers – 24-Pin. 449
Laser Page Printers – Colour. 437
Laser Printer Supplies. 1000–1001
Line Printers. 451
Original Ribbons. 1001
Targus
Digital Camera Accessories. 342
Notebook PC Accessories. 110, 598
Notebook PC Carry Cases. 100–104
USB Products. 598
Taxan
LCD Flat Panel Monitors. 300
Monitors. 300, 310–311

TDK
3½" Formatted Diskettes. 1068
3½" Formatted for Mac Diskettes. 1068
4mm Data Tapes. 1053
CD-R Compact Disc – Recordable. 1047
CD-RW Compact Disc – Rewritable. 1046
Diskettes – Pre-formatted for MAC. 1068
DVD-RAM Discs. 1045
Ethernet Adaptor PC Card. 741
GSM PC Card. 738
GSM PC Card Fax Modem. 740
GSM PC Card Modem. 739
ISDN PC Card Modem. 739
Optical Disks – MO Re-writable. 1059
PC Card Ethernet Adaptors. 741
PC Card Fax Modems. 741
Special Offer. 1069

Tektronix
Inkjet Printer Supplies. 1002–1003
Laser Page Printers – Colour. 432
Laser Printer Supplies. 1004–1005
Solid Ink Printers – Colour. 433
Thermal Ribbons. 1006

Texas Instruments
Laser Printer Supplies. 1006

TIXI
Electronic Mail Box. 770–771

TopList
Continuous Listing Paper. 1018–1021

Toshiba
Carry Cases. 94
CD-ROM Drives. 243
Copier Supplies. 1016
Desktop PCs. 164–166
Hard Disk Drives. 225
Hard Disk Drives – 2½" EIDE. 228
Monitors. 322
Multimedia Accessories. 92
Notebook PC Accessories. 92–97
Notebook PCs. 83–91
Notebook PCs – Introduction. 82
Notebook PCs – with CD-ROM. 83–84, 86, 90
Notebook PCs – with DVD-ROM. 85, 91
Trackball Devices. 286

Trump
Chairs. 493–494

Tyan
Motherboards. 212

U

Unbranded
LCD Projector Accessories. 367

V

VERITAS
Storage Management Software. 924–927

Visioneer
OCR Software. 846

Voltex
Surge Protection. 588

Vulcascot
Cable Bridges. 616

W

Wacom
Graphics Tablets. 288

Walker Richer & Quinn Inc.
Terminal Emulation Software. 876

Western Digital
Hard Disk Drives – Internal EIDE Kits. 216

Winnov
Video Conferencing. 325

Wyse
Visual Display Terminals. 323–324

X

Xerox
Copier Paper. 1023
Fax Paper. 1023
Inkjet Paper. 1023
Inkjet Printer Supplies. 1008
Laser Page Printers. 414
Laser Paper. 1023
Laser Printer Accessories. 440
Laser Printers – Colour. 427
Laser Printer Supplies. 1006–1008
Macintosh Software. 819
OCR Software. 846

Xircom
Ethernet CardBus. 720
Fax Modems – PC Card. 721
GSM/ISDN PC Card Fax Modems. 717
GSM Upgrade Kits. 718
ISDN Connection Kit. 718
PC Card Ethernet Adaptors. 722
PC Card Ethernet Adaptors & Fax Modems. 719, 723
PDAs. 125
USB Expansion Ports. 716
USB Products. 549

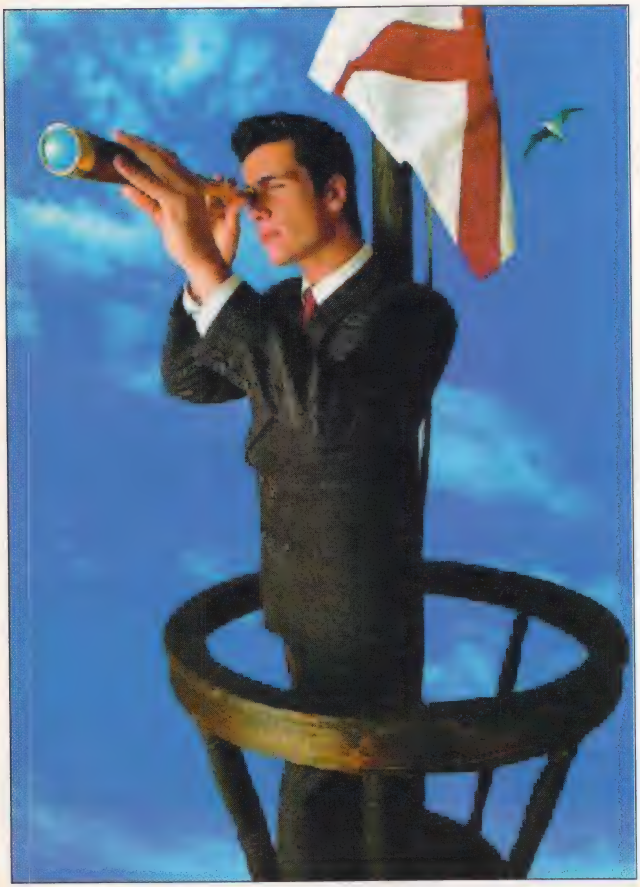
Y

Yamaha
CD-Recorders. 250
CD-Rewriters. 250
Speakers. 328

Z

Zebra
Thermal Printers. 401
ZOOMAIR
Wireless Network Interface Cards. 660

SEARCHING FOR A NON-CATALOGUE ITEM?



If the product you're looking for isn't featured in the current Action catalogue, don't give up! Action is able to source non catalogue items quickly, easily and at no extra cost...

The Action catalogue currently features over 10,000 carefully selected products and services, however we realise that this is just a selection of the IT products available. Rather than increasing the size of the catalogue to an unmanageable 'telephone directory', we can offer you another service.

If you require a non catalogue item, call our Pre-Sales Technical Information Team on *0800 88 44 55*. They will endeavour to process your enquiry by actively trying to source the desired products, where possible, within three days.

Where we are able to source the product, a quotation will be sent.

2½" Hard Disk Drives ... 227
3.5" IDE/SCSI Hard Disk Drive ... 215
3D Shutter Glasses ... 232
3½" Diskettes ... 1062
3½" Drive Cleaning Kits ... 1064
3½" Formatted Diskettes ... 1062, 1065, 1068
3½" Formatted for Mac Disekettes ... 1068
3½" Formatted for Mac Diskettes ... 1062
3½" SCSI/IDE Hard Disk Drives ... 217
4mm Data Storage ... 1054
4mm Data Tapes ... 1052–1053
5¼" Diskettes ... 1062
5¼" Formatted Diskettes ... 1062
8mm Data Tapes ... 1055

A

Academic Eligibility Guidelines for Software ... 940
Accounting Software ... 889–890, 935
Acoustic Hoods ... 490
Adaptors
- 50 ohm BNC ... 592
- AT Serial ... 589
- CardBus ... 720
- for Modems ... 747–748
- for PCs ... 589
- for Telephone ... 620
- Hard Drive Caddy ... 229
- ISDN PC Card ... 759
- ISDN PCI ... 765
- ISDN Terminal ... 759–760, 762, 764–766
- Keyboard ... 567
- Mains Power ... 749
- Null Modem Block ... 589
- Parallel Port ... 589
- PC Card Ethernet ... 719, 722–725, 732, 734, 745
- PC Gender Changers ... 589
- SCSI ... 108, 178, 582
- Serial/Parallel Kits ... 590
- Token Ring ... 659
- USB ISDN ... 764

Adjustable Static Wrist Strap ... 191
AIT Drives ... 265
Alkaline Batteries ... 1065
All-In-One Computers ... 127
Answering Machines ... 477
Anti-Virus Software ... 867–868, 913–914
Array Controllers ... 178
Audio-conferencing ... 479

B

Backup Software ... 920, 923
Batteries ... 71, 95–96
Binder Sleeves for CDs ... 533
Bitronics Auto & Data Switches ... 551
Bitronics Switches ... 552
BNC Connectors & Adaptors ... 592
Bulbs – LCD Projectors ... 366
Bulk 3½" Diskettes ... 1071
Bulk Cable Reels ... 596–597
Bulk CD-R ... 1071
Business Cards ... 1028
Business Telephone ... 477

C

Cable Clips ... 616
Cable Lock Devices ... 511
Cable Management ... 616
Cable Protector Systems ... 616
Cable Reels ... 583
Cables ... 614
- Apple Printers ... 582
- Bridges, Protectors ... 616
- Bulk Reels ... 596–597
- Cat 5 ... 596
- CD-ROM Audio ... 582
- Centronics ... 576
- Centronics Extension ... 574
- Crossover Cat5 ... 614
- Ethernet ... 600–601, 604
- FastCat 5 ... 612–613
- Fibre Optic ... 594
- File Transfer ... 569
- for Flat Panel Monitors ... 568
- Half Pitch Centronics ... 577–578
- Hub Expansion ... 669
- IBM System ... 594
- IEEE 1284 Parallel Printer ... 570, 575
- IEEE 1394 ... 575
- Internal Floppy Drive ... 581
- Internal IDE Drive ... 581
- Internal SCSI ... 581
- Joystick Extension ... 566, 568
- Keyboard Extension ... 567
- Mains ... 583
- Modem ... 566, 568
- Monitor Extension ... 566, 568
- Monitor Switches ... 566, 568
- Parallel File Transfer ... 582
- Parallel Printer ... 569
- Parallel Switch ... 551
- PC to Modem ... 580
- PC to Parallel Printer ... 571–572
- PC to PC ... 582
- PC to Serial Printer ... 571–572
- PC to Switch ... 551
- Premium Patch ... 612–613
- RS 232 Accessories ... 589
- SCSI ... 576–578, 582

– SCSI Gender Changers 578
– SCSI LVD 579
– Serial File Transfer 581
– Serial Mouse, Modem, Monitor 566, 568
– Telephone Extension 621
– Thin Ethernet 595
– Token Ring 596
– Universal 573
– USB 548
– UTP 10Base-T 602–603, 605–611
– UTP Cat 5 600–601
– Workstation Extension 567
Cables & Accessories for Telephone 620
Cable Testers 631
Cable Ties 615
Cable Tunnel Organiser 616
CAD Software 853–854
Carry Cases 94, 101–103, 105–106
Cat 5 Through Couplers 614
CD 1050
CD Binder Sleeves 533
CD Case 527
CD-Docker 92
CD Duplicator 258
CD Labelling 1031, 1048
CD Portable Storage & Cases 527
CD-R Compact Disc – Recordable 1047–1050
CD-Recorders 249–251, 253
CD Repair Kit 1049
CD-Rewriters 249–253, 255
CD-Rewriters – Portable 254
CD-ROM Drive – PC Card 109
CD-ROM Drives 92, 243, 252, 255
CD-ROM Drives – Portable 254, 598
CD-ROM Drives – Portable PCMCIA 252, 255
CD-RW Compact Disc – Rewritable 1046
CD-Servers 259–262
CD Storage 527–529, 1051
CD Storage Wallets 527
CD-Writers 244
Cellular Data Card 744
Certificate of Insurance 38
Chairs 493–494
Cinema Glasses 340
Cleaning Products 538
Cleaning Products for Office 533, 535–536, 539–540
Clik! Drives and Disks 108, 278
Clipart Software 852
Communications Software .. 871–872, 874, 878, 887
Compactape 1044
Compact Parallel Switch Cables 551
Compression Software 862
Computer Cases 213
Connectors
– 50 ohm BNC 592
– for Telephone 620
– Modular 591
Contact Management Software 886
Continuous Listing Paper 1018–1021
Convert-a-Port Adaptor Kit 590
Copier Film 1027
Copier Labels 1030
Copier Paper 1023
Copier Supplies 1014–1016
Copyholders 505
Corded Telephones 478
Cordless Digital Phones 474
Coupler – for Modem & Fax 747
CPU Sharer 559
CPU Stands/Keyboard Drawers 504
Crimp Tools 632

D

Data Access Control 514
Database Software 828–830, 911
Data Cartridges 1064, 1067
Data Cartridge Storage 530
Data Storage Enclosures 230
DAT Drives 163, 185
DDS-3 Autoloader 269
Design Software 841
Design Suite Software 838, 841
Desk Clearance Accessories 502–505
Desks 487, 491
Desktop Computer Accessories – Mac 134
Desktop PC Accessories 130, 151, 162, 225
Desktop PC Accessories – Compaq 161, 163
Desktop PC Accessories – Hewlett-Packard 145
Desktop PC Accessories – Siemens 151
Desktop PCs .. 137–144, 146–150, 154–159, 164–166
Desktop PCs – Mac 127
Desktop PCs Security Device 513
Desktop Publishing Software 836, 838–840, 842
Desktop Suites Software 824
Desktop Workstation PCs 144
Development Tools Software 830–833, 835
Development Tools Training Software 834
Diagramming Software 848, 850
Dictation Equipment 480
Digital Camera Accessories 342
Digital Camera Memory 343
Digital Cameras 330, 332–339
Digital Copier & Printers 453
Digital Copiers 453
Digital Cordless Phones 474–475
Digital Image Printers 334
Digital Internet Camara 341
Digital Photo-printing solutions 338

Digital Projectors 365
Digital Sender 345
Digital Speakers 327–328
Digital Video 575
Digital Video Cameras 331
Digital Video Cards 237
DIMM Modules – Compatibility Chart 204
Disk Cartridges – Removable & Data Cartridges 1039–1040
Diskette Binders 533
Diskette Organiser 533
Diskettes 1068
Diskettes – Colour Coded 1068
Diskettes – Pre-formatted 1068
Diskettes – Pre-formatted for MAC 1068
DLT & Compactape 1041–1042
Docking Stations 79
DockStation 548
Door Intercom 476
Dot Matrix Printers 450
Dot Matrix Printers – 24-Pin 446–449
Dot Matrix Printers – 9-Pin 442–445
Drive Cleaning Kits 1064
D-Type Connector 591
Dual Speed Switches 685
Dust Covers for Office Equipment 537
DVD Labels-CD Inserts 1050
DVD Media Range 1022
DVD-RAM Disc 1045
DVD-RAM Drives 256
DVD-R Disc 1045
DVD-ROM Drive – PC Card 109
DVD-ROM Drives 92, 252–253, 256–257
DVD-RW Drives 257
DVD-Servers 262

E

e-Commerce Accelerators 772
E-Copier 344
Educational Software 943–944
Educational Software – Licensing 941
Electronic Alarm for Laptop 512
Electronic Mail Box 770–771
Electronic Publishing Software 839
E-Mail Software 892–894, 909–910
Ethernet
– Adaptor & Fax Modem 742
– Adaptors – PC Card 719, 722–725, 732–734, 741, 745
– CardBus 720, 724–725, 732
– Dual-speed Hubs 674, 676, 678–679, 682
– Dual-speed Switches .. 684, 688, 690, 692, 694–696
– Ethernet Adaptors 656
– Gigabit Switches 653
– Hubs 663, 666–667, 669, 672–673, 677–678, 680–681
– Media Convertors 701
– Modems 737
– Network Cards 652, 654–658
– Switchable Hubs 670
– Switches 689
– Transceivers 703–704
Ethernet Adaptors 71, 185
– CardBus 724
– PC Card 724
Ethernet Cables 600–607
Executive Chairs 494
Extended Warranty – Desktop PCs 35–36
Extended Warranty – Fax Machines 35–36
Extended Warranty – Notebook PCs 34–36
Extended Warranty – Printers 35–36
Extension Cables – Workstation 567
External Storage Devices 178

F

Facsimile Machines 461–463, 468–473
Fast Ethernet
– Media Convertors 702
Fast SCSI-2 Drives 178
Fax and Data Modems
– with PC Card Ethernet Adaptors 719, 723
Fax & E-mail data card 744
Faxes
– Multifunctional Capable 461–463
– Plain Paper 462, 468–473
– Thermal Transfer 471
Fax Modems 736
– External 752–755, 757
– GSM 727, 738, 743
– GSM PC Card 739–740
– Internal 752–754, 758
– ISDN PC Card 739, 742
– ISDN/GSM 718
– ISDN/GSM PC Card 717
– PC Card 718, 721, 726–727, 730–731, 736, 738, 743
– USB External 755
– Voice Capable 754, 758
Fax Paper 1023
Fax Server Software 917–918
Fax Software 871
Fax Supplies 958, 992, 996, 999, 1010–1013
Fax Switches 749
Fileserver Accessories 176, 178–179
File Server Accessories 225
Fileserver Accessories – Compaq 176, 178–179
Fileserver Accessories – HP 182
Fileserver Accessories – IBM 185
Fileserver – Rack Mountable 173
Fileservers 168–171, 180–181, 183–184

Fileservers – Rack Mountable 172
Film 957, 969, 981, 983
Film Scanners 346
Finance Software 891
Fingerprint Recognition Scanner 289
Fire Safes 516–517
FireWire IEEE 1394 cables 575
Flat Panel Monitors 297
Floppy Drive Lock 513
Floppy Drives 254
Font Software 852
Foot Rests 505

F

Full Face CD 1022
Furniture
– LAN System 498–501
– Networking 496–497

G

Gender Changers 590
Glare Screen Filters 525
Graphic Design Software 880
Graphics Cards 231–235
Graphics Software 837, 841, 843, 852, 880
Graphics Tablets 288
GroupWare Software 892–894, 909
GSM Modems 727, 738, 740, 743–744
GSM Upgrade Kits 718, 729
Guide – ISDN 750
Guide to – All-In-One Multifunctional Products 452
Guide to – Apple Macintosh 126
Guide to – Cleaning 534
Guide to – Colour Laser Page Printers 426
Guide to – Connectors 565
Guide to – Convertors 700
Guide to – Data Storage 248
Guide to – Digital Cameras 329
Guide to – Dot Matrix & Line Printers 441
Guide to – Ethernet Connectors 650
Guide to – Ethernet Installation Products 617
Guide to – Facsimile Products 464
Guide to – Fire Safes 515
Guide to – Hubs 662
Guide to – Inkjet Printers 374
Guide to – LCD Projectors 352
Guide to – Magnetic Media 1038
Guide to – Memory Upgrades 190
Guide to – Monitors 295
Guide to – Multifunctional Capable Products 460
Guide to – Multiplexors 700
Guide to – Network Adaptors 651
Guide to – Network Cabling 599
Guide to – Networking Accessories 640
Guide to – Page Printers 404
Guide to – PC Cards 715
Guide to – PC Components & Upgrades 187
Guide to – Portable PC Terminology 51
Guide to – Print Servers 705
Guide to – Screen Filters 518
Guide to – Security Products 510
Guide to – Software 788–789
Guide to – Storage 214
Guide to – Storage Products 526
Guide to – Switches 550, 683, 751
Guide to – UPS 640

H

Handheld PCs 122–124
Handheld PCs & Accessories 123
Hard Disk Drives 71, 95, 108, 163, 178, 224–226
Hard Disk Drives – 2½" EIDE 228
Hard Disk Drives – 3.5" IDE 223
Hard Disk Drives – 3½" EIDE 218, 220, 222
Hard Disk Drives – 3½" SCSI 218–219, 222
Hard Disk Drives – Internal EIDE Kits 216
Hard Disk Drives – SCSI 185
Hard Drive Caddy Adaptor 229
Hard Drives – External 254
Hard Drives – Internal 3½" SCSI 221
Hard Drives – PC Card 109
Hard drives – RAID systems 263
Hard Drives – Upgrade Kits 229
Hardware Maintenance 24
Hardware & Software Configuration 26
Hardware – Supported Product List 25
Headsets 294
Help Desk Software 869
High Speed Serial Cards 767
Home, Leisure & Reference Software 938–939
HP Magnetic Media Range 1060–1061
Hub Accessories 671
Hubs
– Dual-speed Ethernet ... 664–665, 674, 676, 678–679
– Ethernet 663, 666–667, 669, 672–673, 677–678, 680
– Fast Ethernet 663, 668, 675, 681
– Switchable Ethernet 670
– USB 547

I

IBM Cabling System 594
iBook 128
iMac 127
Image Editing Software 837, 843–844, 880
Individual Tools 637
Inkjet Cartridges – Original Mac 135
Inkjet Cleaning Kit 535
Inkjet Compatibility Chart (Canon) 952

Inkjet Compatibility Chart – Epson 960
Inkjet Compatibility Chart – Hewlett-Packard 971
Inkjet Compatibility Chart – Kyocera 987
Inkjet Film 981, 1027
Inkjet Labels 1029–1030
Inkjet Paper 981, 1023
Inkjet Printer Accessories (Canon) 397
Inkjet Printer Accessories (Epson) 397
Inkjet Printer Accessories (Hewlett-Packard) ... 397
Inkjet Printers – Colour 376–396
Inkjet Printers – Portable 377
Inkjet Printer Supplies 948, 950, 953–956, 961–964, 972–975, 982–983, 991, 1002–1003, 1008–1009
Integrated Packages 825
Internet Development Tools Software 830
Internet Publishing Software 837, 879, 881–882
Internet Security Software 873, 916
Internet Servers 782
I/O Adaptors 110
ISA/PCI Function Cards 242
ISDN & Analogue Modem Cards 756
ISDN Connection Kit 718
ISDN PC Card Modem 718, 736, 742
ISDN Terminal Adaptors ... 759–760, 762, 764–766
ISDN Upgrade Kits 728
ITU-T Test Chart No. 1 464

J

Joysticks 279

K

Keyboard Adaptors 567
Keyboard Extension Cables 567
Keyboard & Mouse Bundles 292
Keyboards 287, 290, 292–293, 323
KVM Extender 562
KVM Switches 555–561, 563

L

Labelling Software 858
Label Printers 483–486
Label Printing Software 1029
Labels – four across the web 1033
Labels – one across the web 1034
Labels – three across the web 1034
Labels – two across the web 1034
Laminators 482
LAN System Furniture 498–501, 628–630
Laptop Security Device 512
Laser Compatibility Chart – Hewlett-Packard ... 976
Laser Compatibility Chart – OKI 989
Laser Compatibility Chart – Panasonic 993
Laser Film 1027
Laser Labels 1028, 1032–1033
Laser Labels – Software Compatible 1032
Laser Page Printer – Accessories (Hewlett-Packard) 423
Laser Page Printers 406–422
Laser Page Printers – Colour 427–432, 434–437
Laser Paper 1023
Laser Printer Accessories 439–440
Laser Printers – Colour 427
Laser Printers – for Macintosh 133
Laser Printer Supplies 949–951, 956, 959, 965, 977–979, 984–985, 988, 990–991, 994–995, 997–1001, 1004–1009
Laser Supplies – Mac 135
Laser Toner – Mac 135
LCD Flat Panel Displays 303
LCD Flat Panel Monitors 298–302, 304–305, 309, 313, 315, 317, 321
LCD Projector Accessories 355–356, 358–359, 365, 367
LCD Projector Bulbs 366
LCD Projectors 353–360, 363–365, 370
LED Page Printers 405
Licensing Software 793–807
Line Printers 451
Lithium Batteries 1065
LS-120 Diskettes 1044
LS120 Drives 277
LS-120 Floppy Drive – USB 134

M

Macintosh Software 819
Mapping Software 935
Media Compatibility Chart – Epson 968
Media Compatibility Chart – Hewlett-Packard ... 980
Media Convertors – Ethernet 701
Media Convertors – Fast Ethernet 702
Media Storage 527–528
Media Supplies 983
Memory Lock 513
Memory Modules 192–198
Memory Upgrades 71, 79, 93, 95, 145, 161, 163, 185, 192–202
Memory Upgrades – DIMM Modules 203
Memory Upgrades – Guide 190
Memory Upgrades – SIMMs 202
Microphone 294
Minitower PCs 141
Minitower PCs – Mac 131
Modem Adaptors 747–748
Modem Cards – ISDN Analogue 756
Modems 97
– Integrated PC Card 718
– PC Card 718

Modular Connectors 591
Monitor Accessories 321
Monitor Arms 509
Monitors 298–300, 304, 306–322
Monitor Safety Regulations 296
Monitor Sharer 564
Monitors – Mac 132
Monitor Splitters 564
Monitor Stands 502–503
Motherboards 210–212
Mounting Frames 1027
Mouse 287
Mouse & Keyboard Packages 283
Mouse Mats 507
Mouse Packages 280–285
Mouse Pads 507
MPEG Cards 92
Multifunctional Capable Products 461–463, 470
Multifunctional Products 454–458
Multimedia Software 882
Multimedia Storage 532

N

Network
- Ethernet Cards 652, 655, 657–658
- Fast Ethernet Cards 654, 657
- Firewall Security 786
- Gigabit Ethernet Cards 654
- Starter Kit 781
- Storage 264, 699
- Wireless Adaptor Card 660, 661
- Wireless Bridge 660
- Wireless PC Card 660

Network Anti-Virus Software 912
Network Attached Storage 261
Network Cards 179
Network Diagramming Software 849, 851
Network Disk Drives 698
Network Management Software 915
Network Operating Systems Software 905–906
Network Racking System 496–497, 623
Network Security Firewall 784, 786
Network Security Software 929
Network Utilities Software 921
Notebook Computers – Mac 128–129
Notebook PC Accessories 55–56, 60, 65–66, 110, 130, 225
Notebook PC Accessories – Acer 79
Notebook PC Accessories – Compaq 66
Notebook PC Accessories – Fujitsu/Siemens 79
Notebook PC Accessories – IBM 71
Notebook PC Accessories – Samsung 79
Notebook PC Accessories – Toshiba 92–97
Notebook PC Carry Cases 100–107
Notebook PC Clearance Bargains 98
Notebook PC Insurance 37
Notebook PCs 52–54, 64, 67–70, 74–78, 83–91
Notebook PCs – Introduction 82
Notebook PCs – with CD-ROM 52–54, 57–59, 61–64, 67–70, 72–78, 83–84, 86, 90
Notebook PCs – with DVD-ROM 52, 58–59, 63, 64, 67, 70, 85, 91
Notebook Security Device 512

O

OCR Software 845–847
Office Chairs 493–494
Office Cleaning Products 535, 538–540
Office Desks 487
Office Equipment Dust Covers 537
On-Site Service Packs – Hewlett-Packard 425
Operating Systems Software 895, 898–902
Optical Disks – MO Re-writable 1058–1060
Optical Disks – WORM 1060
Original Inkjet Cartridges 135
Original Ribbons 949, 951, 959, 966–967, 986, 995, 1001
Out of Warranty Repairs 39

P

Palm Accessories 115–116
Palm Handheld Organisers 111–114
Palmtop PC Accessories 117–120
Palmtop PCs 118–119
Palmtop PC Software 121
Paper 957, 970, 981, 983
Patch Panels 624
Patch Panels – Cat 5 625
Payroll Software 889–890
PC Card Ethernet Adaptors 722, 741, 745
PC Card Ethernet Adaptors & Fax Modems 719, 723–724, 734
PC Card Fax Modems 741
PC Card – ISDN 742
PC Card Modems 717, 726–727, 730, 736, 743
PC Cases 213
PC Clearance 167
PC Function Cards 241
PC Helpdesk Service 30
PCMCIA Cards 108, 110
PCMCIA Hard Disk Drives 226
PCMCIA Hard Drives 110
PCMCIA Modems 744
PC Security Devices 511, 514
PDAs 125
Pedestal Units 491
Personal Information Management Software 887
Phones 474–475, 477–478

Phone System 476
Photocopiers 481
Photo Paper 969
Plain Paper Facsimile Machines 462, 468–469, 471–473
Plasma Display 368–369
Plotters 398–399
Port Replicators 71
Power Adaptor Kits 583, 747
Power Adaptors 66, 71, 79
Power Convertor 749
Power Supply 241
Presentation Software 826
Printer Silencers 490
Printer Stands 489–491
Printer Starter Kits 375, 1024–1026
Printer Switches 554
Printhead Cleaning Cartridge 535
Print Servers 706–714
Processors 206–208
Processor Upgrades 208–209
Project Management Software 884–885
Projectors 361–362, 365
Projectors – LCD . 353–356, 358–360, 363, 365, 370
ProxyServer with ISDN 760

R

Rack Accessories 179
Rack Mountable Fileservers 174–175
RAID Systems 263
RAM Upgrades 192–198
Reference Manuals 932
Remote Access Solutions 761, 764, 768–769, 773–779, 781, 783, 785
Remote Computing Software 872
Remote Control 279
Removable Media Storage & Labels 1043
Removable Storage 109
Repairs – Out of Warranty 39
Reports Writer Software 888
Re-Writers 244
RJ-45 Accessories 624
– Faceplates 624
– Insertion Tools 624
– Mounting adaptors 624
– Wallplates 624
Route Navigation Software 936
Route Planning Software 936–937
RS 232 Accessories 589

S

Scanners 347–351
Screen Filters 519–521, 523–525
SCSI-2 Controllers 163
SCSI Adaptors 108, 178, 239–240
SCSI Cards 238
SCSI RAID Adaptors 240
Security Devices – for Desktop PCs 513
Security Devices – for Notebooks 512
Security Software 916
Serial Interface Cards 761
Servers
– Ethernet Print 706–714, 782
– for CD-ROM 260
– Token Ring Print 707, 709–711
Server Software 903–904, 911
Service Kit 191
Shelf Units – Chrome Plated 495
Shredders 482
SmartMedia Cards 343
Software – Mac 135
Solid Ink Printers – Colour 433
Sound Cards 236
Speakers 327–328
Specialised Cables – 3Com 593
Specialised Cables – Cisco 593
Specialised Cables – Shiva 593
Special Offer 1069
Speech Recognition Software 855–857
Spreadsheet Software 826–827
Storage 698
Storage for Media 527, 530
Storage Management Software 919, 924–927
Storage Media 530
Student Licence Packs Software 942
Suite Software 820–823, 843
SupportPacks 31
SupportPacks – Hewlett-Packard 424
SupportPacks – non-HP Products 31
Support & Product Subscription 934
Surge Protection 585–586, 588
Surge Protection – Individually fused sockets ... 588
Switch Cables 551
Switches
– Bitronics DualBus 552
– Bitronics Reversible Data 551
– Compact Auto 553
– Dual-speed Ethernet 688, 690–692, 694–696
– Ethernet 689
– Fast Ethernet 684, 686–687
– Fax 749
– for Monitor, Keyboard & Mouse 563
– Gigabit Ethernet 653, 693
– Gigabit Ethernet 772
– KVM 555–557, 559–561
– Manual Reversible 554
– PC to Printer 554
– Token Ring 697

System Furniture 491–492

T

Tape Backup Software 920, 922
Tape Drive Accessories 275–276
Tape Drives 163, 179
Tape Drives – DAT 268–270, 272
Tape Drives – DLT 266–267, 272
Tape Drives – Removable Media 275–276
Tape Drives – Travan 271, 273–274
Technical Support – Compaq 33
Telephone Answering Machines 477
Telephone Extension Kit 618–619, 621
Telephones 474–475, 477–478
Telephone System 476
Telephone System with Intercom 476
Terminal Arms 508–509
Terminal Emulation Software 874–877
Terminal Servers 776
Terminals – Visual Display 323–324
Terminators – LVD, SCSI 579
The Essential Guide to Software 788–789
Thermal Printers 401
Thermal Ribbons 1006
Thermal Transfer Film 1027
Thin-Client Server Software 907–908
Thin-Client Software 730
Thin Ethernet Cables 595
Third Party Printer Memory Upgrades 438
Token Ring Adaptor 185
Token Ring Adaptors – PC Card 746
Token Ring Switches 697
Tool Kits 633–635, 637
Tools 637
– BNC Crimp 636
– Cable Service Terminator Kit 632
– Cable Testing 631
– Computer 633
– Crimp 620, 632
– Data Cable Stripper 636
– RJ-45 Insertion 624
– Rotary Stripping 636
– Static Safe Field Service Kit 632
– Various 634–635, 637
Tower PCs 150, 154
Trackball Devices 286
Training Courses 27–29
Training Guides 932
Training Software 834, 930–931, 933
Tranceiver Module 669
Transceivers
– Ethernet 680, 703–704
– Fibre Optic Ethernet 703
Transparency Film – for Inkjet, Laser, Colour Laser 1027
Transparency Protectors 1027
Travan Cartridges 1056–1057
TV 237
TV Glasses 340
Typing Software 858

U

Ultra SCSI controller 163
Uninterruptible Power Supply
– Line Interactive 587, 641–643, 645, 648–649
– Off-Line 641
– On-Line 646–647
– Rackmounted 644
– Software 641
Upgrade Kits
– GSM 718, 729
– ISDN 728
Upgrades & Trade-Ups 815
Upgrades & Trade Ups Software 815–818
USB
– BusPort Mobile 548
– BusStation 543
– Cables 549
– Converters 549
– Digital Video 575
– Direct Connect Adaptors 584
– Ethernet Adaptors 543
– Extension Cables 548
– Hubs 543, 549
– Keyboard 287
– Modem 755
– Motherboard Adaptor Cable 548
– Mouse 287
– Parallel Adaptors 584
– PCI Cards 549
– Peripheral Cable 548
– SCSI Adaptors 584
– Serial Adaptors 543
USB Ethernet Adaptor 735
USB Expansion Ports 716
USB Fax Modems 755
USB Hubs 547, 598
USB ISDN Terminal Adaptors 764
USB Products 546
USB Video Bus 547
Utilities Software 859–861, 863–866, 870, 898
UTP Controller 163
UTP Ethernet Installation Production 622, 625
UTP Patch Panels 624

V

Video Conferencing 325

Video Conferencing Camera 325–326
Video Conferencing Camera Kit 97
Video Splitters 564
Visual Display Terminals 323–324

W

Warranty – Epson 32
Warranty Upgrades 163
Web Authoring Software 883
Web Management Software 883
Word Processing Software 826
Workstation Extension Kits 567
Workstations 160
Workstations – Height Adjustable 488
Workstations – Mobile 488
Wrist Rests 506

Z

Zip Drives 276
Zip Software 862

Delivery map



Order your goods before 10.30am & get them the same day for only £19.95*

*Zone 2 only. see right for details.

Action
The No.1 Source for Computers and Supplies

Delivery

Look at the map opposite to see which delivery zone you fall into. (We will confirm the zone for you when you place your order.)

Once you have determined your zone, look at the chart below to see when and how you would like your goods delivered. Remember, if your goods are fragile, or valued over £1750 (ex VAT), they have to be sent as **FRAGILE**. The weight limited for goods is 30kg per item. Any **HEAVY ITEMS** over this weight will require a two man service if there is no forklift at the receipting address.

We are happy to quote on more urgent deliveries on an individual basis, but if you don't specify the service you require, the most appropriate delivery service will be allocated and charged accordingly.

Collection

Local customers can arange to collect their goods from our Southall warehouse when placing their order. Please give 1 hour clear notice. Please call us on 0800 333 333 for directions.

Please note – If a technical service is being applied to a product order, this may affect the product delivery date. Details of lead time and performance target for each technical service are listed in the Services section.

ZONE	DELIVERY TYPE	up to 1kg	1kg-25kg	25Kg+
1 **Central London** (W1, W2, W8 WC1, WC2, SE1, SW1, SW3, SW7, E1, EC1, EC2, EC3, EC4)	Same Day (order before 10.30am)	8.45	8.45	Call
	Same Day (order after 10.30am)	24.95	24.95	Call
	Next Day before 9am	16.95	16.95	Call
	Next Day before 10am	14.95	14.95	Call
	Next Day before 1pm	7.95	7.95	Call
	Saturday	23.95	23.95	Call
	2-3 days	2.25	5.45	Call
2 **Inside Western M25**	Same Day (order before 10.30am)	19.95	19.95	Call
	Same Day (order after 10.30am)	Call	Call	Call
	Next Day before 9am	16.95	16.95	Call
	Next Day before 10am	14.95	14.95	Call
	Next Day before 1pm	7.95	7.95	Call
	Next Day before 5.30pm	7.95	7.95	Call
	Saturday	23.95	23.95	Call
	2-3 days	2.25	5.45	Call
3 **England, Wales and Scotland**	Same Day	Call	Call	Call
	Next Day before 9am	16.95	16.95	Call
	Next Day before 10am	14.95	14.95	Call
	Next Day before 1pm	7.95	7.95	Call
	Next Day before 5.30pm	7.95	7.95	Call
	Saturday	23.95	23.95	Call
	2-3 days	2.25	5.45	Call
4 **Scottish Highlands**	Next Day before 5.30pm	7.95	7.95	Call
	2-3 days	2.25	6.45	Call
5 **Northern Ireland, Isle of Man, Scilly Isles**	Next Day before 5.30pm	7.95	7.95	Call
	2-3 days	2.25	6.45	Call
6 **Channel Islands (order by 4pm)**	Next Day before 5.30pm	65.00	65.00	Call
	2-3 days	9.95	9.95	Call

All prices throughout the catalogue exclude VAT and delivery.
Cut-off time for ordering is 5pm unless otherwise stated. E&OE

Notes

Action
The No.1 Source for Computers and Supplies

Order your goods before 10.30am & get them the same day!*

only £19.95

*Zone 2 only. see left for details.

How to order



www.action.com

place your order via our website and benefit from even bigger discounts no matter how large or small your order.

The website is constantly updated with the latest products and prices, so you'll always receive the best deals online.



Freephone 0800 333 333

there are over 200 FREE incoming customer order lines.

Call us anytime between 8am and 6pm Monday to Friday or 9am to 1pm Saturdays. (Goods are dispatched following Monday for Saturday orders.)



Freefax 0800 10 20 30

fax your order through to us if its more convenient

Please do not send postal confirmations of orders as this may lead to duplication



Freepost **Action, FREEPOST, Wembley, Middlesex HA0 1BR**

your order may take a couple of days to reach us by post but will still receive the same prompt response on arrival.

PAYMENT

Pay for your order in the most convenient way...

Open an account and enjoy 30 day payment terms. Fax us on 020 8782 6629 with your bank account details on your company letterhead, and we will process your request for an account. Call 0800 333 333 for full details.

Credit Card. Action accepts Access, Visa, Mastercard, Diners Club and American Express

Debit Card. Action also accepts, Switch & Delta, pay with either of these and receive an extra 0.75%* discount (excluding VAT & carriage).





Cash or Cheque. You can also pay by cash or cheque. Pay with either of these and again you'll receive an extra 0.75%* discount (excluding VAT & carriage). Please make cheques payable to *Action Computer Supplies*.

Please be aware that cheques take five working days to clear after they have been received by us.

See page 6 for full information.

Contents

See the inside front cover flap for more detailed contents

GENERAL INFORMATION	1
TECHNICAL SERVICES *Featured in this section are hardware/software configuration & installation, training, helpdesk service, hardware maintenance, extended warranty, warranty upgrades, insurance & more*	21
PROCESSORS & ACCESSORIES *This section includes areas such as portable, desktop, mini-tower, small form factor & palmtop PCs, workstations, servers and a whole range of accessories.*	50
PC COMPONENTS & UPGRADES *This section includes areas such as memory, processors, CD-ROM & hard drives, SCSI adaptors, PC cases, motherboards, graphic & sound cards – everything to upgrade or build a PC.*	186
PERIPHERALS *Including data storage products such as CD writers, tape drives & NAS as well as monitors, scanners, digital cameras, LCD projectors, mice and keyboards.*	245
PRINTERS *This section includes inkjet, laser and dot matrix printers (mono and colour), multifunctional machines and a wide range of accessories and consumables.*	371
OFFICE PRODUCTS *Everything you need for the ideal office such as office furniture, fax machines, phones, security devices, media storage, fire safes, office cleaning products and much more.*	459
CABLES AND CONNECTIVITY *This section includes peripheral and network cables/connectors, surge protection, USB, toolkits, switches, telephone accessories and network racking accessories.*	541
NETWORKING & DATA/VOICE COMMUNICATIONS *This section covers all networking products including UPS's, adaptors, hubs, switches, portable PC cards, printer servers, routers, terminal adaptors and modems.*	638
SOFTWARE LICENSING *This section features a guide to software licensing, and includes licensing programs such as Microsoft, Visio and Symantec.*	788
SOFTWARE *This section includes networking software, terminal emulation, operating systems and a whole range of applications for business and home users.*	810
PRINTER CONSUMABLES *This section includes a large selection of consumables including laser, inkjet, ribbons and fax consumables and also a wide range of stationery.*	945
DATA STORAGE MEDIA *This section includes all magnetic media cartridges and tapes, DLT, DAT, Travan, LS120, Jaz, Zip and diskettes as well as CD and DVD media.*	1035
CLEARANCE BARGAINS	1072
TERMS & CONDITIONS	1075
INDEX	1077
DELIVERY	1120

A MORE DETAILED BREAKDOWN OF EACH SECTION APPEARS ON THE *INSIDE FRONT COVER FLAP*

Action.com

Lower Prices Online

- 6,000 additional products available online
- The best value, service and offers at the lowest published price
- Track your order
- Real-time stock levels
- Special offers constantly updated
- Dedicated vendor areas
- Ziff-Davis product reviews
- Essential reference guides

www.action.com

Action EDITION 86

The No.1 Source for Computers and Supplies

CUSTOMER NO: 02650317
MS LIZ BRUNWIN
CLIFFORD THAMES PRINTING CO LT
MONTROSE HOUSE
MONTROSE ROAD
DUKES PARK-CHELMSFORD
ESSEX
CM2 6TE

LD19/5

If Catalogue undelivered please return to Action, 12 Windmill Lane, Southall, Middlesex, UB2 4QJ. For product returns please see inside.